



## TITLE V OPERATING PERMIT

Issued pursuant to Title 22a of the Connecticut General Statutes (CGS) and Section 22a-174-33 of the Regulations of Connecticut State Agencies (RCSA) and pursuant to the Code of Federal Regulations (CFR), Title 40, Part 70.

<b>Title V Permit Number</b>	075-0244-TV
<b>Client/Sequence/Town/Premises Numbers</b>	5772/01/075/766
<b>Date Issued</b>	September 16, 2005
<b>Expiration Date</b>	5 Years from Issuance

**Corporation:**

Capitol District Energy Center Cogeneration Associates

**Premises location:**

490 Capitol Avenue, Hartford, CT 06106

**Name of Responsible Official and Title:**

John J. O'Rourke – El Paso, Vice President and Managing Director

All the following attached pages, 2 through 53 are hereby incorporated by reference into this Title V Operating Permit.

GINA MCCARTHY  
Gina McCarthy  
Commissioner

September 16, 2005  
Date

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## LIST OF ACRONYMS

<i>Acronym</i>	<i>Description</i>
ACFM	Actual cubic feet per minute
ASC	Actual Stack Concentration
BACT	Best Available Control Technology
BAM	Bureau of Air Management
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CO	Carbon Monoxide
CP/OP	Construction Permit/Operating Permit
CTG	Control Technology Guideline
DEP	Department of Environmental Protection
DSCF	Dry standard cubic feet
DSCM	Dry standard cubic meters
EMU	Emission Unit
ERC	Emission Reduction Credit
EPA	Environmental Protection Agency
FLER	Full load emission rate
GEU	Grouped Emission Unit
GPH	Gallons per hour
GPM	Gallons per minute
HAP	Hazardous Air Pollutant
HLV	Hazard Limiting Value
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
MASC	Maximum Allowable Stack Concentration
MSDS	Material Safety Data Sheet
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO <sub>x</sub>	Nitrogen Oxides
NSR	New Source Review
Order	Trading Agreement & Order
PM	Particulate Matter
PPMV	Parts per million, volumetric basis
PTE	Potential to Emit
RACT	Reasonably Available Control Technology
RCSA	Regulations of Connecticut State Agencies
RMP	Risk Management Plan
SIC	Source Identification Code
SIP	State Implementation Plan
TOC	Total Organic Carbon
TPH	Tons per hour
TPY	Tons per year
TSP	Total Suspended Particulate
VOC	Volatile Organic Compound

## DEFINITIONS

**Budget source** means:

- (A) A baseline utility unit;
- (B) A cogeneration unit;
- (C) An industrial unit;
- (D) A new unit;
- (E) A new utility unit; or
- (F) An opt in unit.

**Cold cleaning** means the batch process of cleaning and removing soils from metal surfaces by spraying, brushing, flushing or immersion while maintaining the degreasing solvent below its boiling point. Wipe cleaning is not included in this definition.

**Continuous emissions monitoring system or CEMS** means the equipment used to sample, analyze, and measure pollutant emissions to provide a permanent record of such emissions expressed in pounds per MMBtu and in tons per day. The following systems are component parts of a CEMS:

- (A) Pollutant concentration monitor;
- (B) Diluent gas monitor (oxygen or carbon dioxide);
- (C) A data acquisition and handling system; and
- (D) Flow monitoring systems (where appropriate).

**Degreasing solvent** means any volatile organic compound used for metal cleaning.

**Metal cleaning** means the process of cleaning soils from metal surfaces by cold cleaning or open top vapor degreasing or conveyORIZED degreasing.

**Malfunction** means any sudden and unavoidable failure of the air pollution control equipment or process equipment or of a process to operate in a normal manner. Failures that are caused entirely or in part by poor maintenance, careless operation or any other preventable condition or breakdown shall not be considered malfunctions.

**Start-up** shall be defined as that period of time from initiation of combustion turbine firing until the unit reaches steady-state operation.

**Shutdown** shall be defined as the period of time from the initial lowering of turbine output to when the combustion process has stopped.

## **Title V Operating Permit**

**All conditions in Sections III through VI, VIII, and IX of this permit are enforceable by both the Administrator and the Commissioner unless otherwise specified. Applicable requirements and compliance demonstration are set forth in Sections III and IV of this permit. The Administrator or any citizen of the United States may bring an action to enforce all permit terms or conditions or requirements contained in Sections III through IX (except Section VII) of this permit in accordance with the Clean Air Act (CAA), as amended.**

## **Section I: Premises Information/Description**

### **A. PREMISES INFORMATION**

Nature of Business: Electricity and steam generation  
Primary SIC: 4911

Facility Mailing Address: Capitol District Energy Center Cogeneration Associates  
490 Capitol Avenue  
Hartford, CT 06106

Telephone Number: (860) 293-1990

### **B. PREMISES DESCRIPTION**

Capitol District Energy Center Cogeneration Associates (CDECCA), a subsidiary of El Paso Corporation, began commercial operation of the Capitol District Energy Center (CDEC) on February 2, 1989. CDECCA is a combined-cycle cogeneration plant producing electricity and thermal products through a simple topping cycle. The facility consists of a General Electric model PG 6531(Frame 6) combined cycle gas turbine generator with an in-line duct burner, a three pressure waste heat boiler, a condensing/extraction steam turbine, two (2) 900-ton two-stage absorption chillers, two (2) 1800-ton centrifugal chillers, a diesel starter engine, and a stand-alone package boiler to provide backup steam to the steam loop. The facility produces and sells wholesale electricity, steam, and chilled water and is subject to the Acid Rain requirements.

The duct burner cannot physically operate unless the gas turbine is operating. The package boiler is used to provide emergency steam in the event of a gas turbine failure and supplementary steam during transitions in gas turbine operations. The gas turbine is subject to 40 CFR Subpart GG, while the duct burner and the package boilers are both subject to 40 CFR Subpart D<sub>b</sub>. The requirements of 40 CFR 60 Subpart A has been subsumed into the requirements of 40 CFR 60 Subpart D<sub>b</sub> and GG.

The steam turbine, the adsorption chillers, and the centrifugal chillers do not emit any regulated pollutants. The centrifugal chillers, although they are electric driven, are considered emission units. This is because the centrifugal chillers use freon 114 (1,2 dichlorotetrafluoroethane, CAS No. 76-14-2) as a refrigerant and are therefore subject to 40 CFR 82, Protection of Stratospheric Ozone. Applicable requirements for the chillers are provided in 40 CFR 82 Subpart F, Recycling and Emissions Reduction.

The Safety-Kleen Model 30 parts cleaner is subject to RCRA 22a-174-20(l). Applicable requirements for the cleaner are provided in RCRA 22a-174-20(l)(3) for cold cleaning units.

CDECCA is not major for HAPs and therefore not subject to any MACT standards.

## Section II: Emission Unit Description

### A. EMISSIONS UNITS IDENTIFICATION: STANDARD OPERATING SCENARIO (SOS) AND ALTERNATIVE OPERATING SCENARIOS (AOS)

Emission units are set forth in Table II.A

TABLE II.A: EMISSION UNIT DESCRIPTION					
Emission Units	Emission Unit Description	Size Rating/ Design Capacity	Control Unit Description	Monitoring Unit Description	Permit, Order, Registration #; or Standard*
EMU 1	General Electric Gas Turbine, Model PG 6531(Frame 6)	<ol style="list-style-type: none"> <li>520.8 MMBtu/hr (for oil)</li> <li>548.2 MMBtu/hr (for natural gas)</li> </ol>	Steam Injection to control NO <sub>x</sub>	<ol style="list-style-type: none"> <li>NO<sub>x</sub> analyzer meeting the requirements of 40 CFR 60 Subpart GG, an Alternative Monitoring Plan granted by US EPA in a letter dated June 10, 1996 to CDECCA, DeVillars to Hurley, and/or 40 CFR 75, Appendix D</li> <li>SO<sub>2</sub> analyzer or an SO<sub>2</sub> monitoring system meeting the requirements of 40 CFR Part 75, Appendix D</li> <li>CO<sub>2</sub> analyzer meeting the requirements of 40 CFR 60 Subpart D<sub>b</sub></li> <li>Opacity Monitor meeting the requirements of 40 CFR 60 Subpart D<sub>b</sub></li> </ol>	<ol style="list-style-type: none"> <li>CP/OP # 075-0064</li> <li>40 CFR Subpart GG</li> <li>40 CFR Parts 72 through 78</li> <li>Order #8249</li> </ol>
EMU 2	John Zinc Duct Burner, S/N DB-553840	<ol style="list-style-type: none"> <li>187.4 MMBtu/hr (for oil)</li> <li>190.6 MMBtu/hr (for natural gas)</li> </ol>	Low NO <sub>x</sub> Burner	<ol style="list-style-type: none"> <li>NO<sub>x</sub> analyzer meeting the requirements of 40 CFR 60 Subpart GG, an Alternative Monitoring Plan granted by US EPA in a letter dated June 10, 1996 to CDECCA, DeVillars to Hurley, and/or 40 CFR 75, Appendix D</li> <li>SO<sub>2</sub> analyzer or an SO<sub>2</sub> monitoring system meeting the requirements of 40 CFR Part 75, Appendix D</li> <li>CO<sub>2</sub> analyzer meeting the requirements of 40 CFR 60 Subpart D<sub>b</sub></li> <li>Opacity Monitor meeting the requirements of 40 CFR 60 Subpart D<sub>b</sub></li> </ol>	<ol style="list-style-type: none"> <li>CP/OP # 075-0064</li> <li>40 CFR Subpart D<sub>b</sub></li> <li>40 CFR Parts 72 through 78</li> </ol>



## Section II: Emission Unit Description

**TABLE II.A: EMISSION UNIT DESCRIPTION, Continued**

<b>Emission Units</b>	<b>Emission Unit Description</b>	<b>Size Rating/ Design Capacity</b>	<b>Control Unit Description</b>	<b>Monitoring Unit Description</b>	<b>Permit, Order, Registration #; or Standard*</b>
EMU 3	Zurn Package Boiler S/N 101087	1. 187.4 MMBtu/hr (for oil) 2. 194.8 MMBtu/hr (for natural gas)	Low NO <sub>x</sub> Burner and Efficient Combustion Controls.	1. NO <sub>x</sub> analyzer meeting the requirements of 40 CFR 60 Subpart D <sub>b</sub> 2. SO <sub>2</sub> analyzer, in lieu of a CEMS for SO <sub>2</sub> . The permittee shall obtain fuel receipts as described in 40 CFR 60.49b(r) and certify that only very low sulfur oil, as defined in 40 CFR 60.41b, was combusted during each reporting period. 3. CO <sub>2</sub> analyzer meeting the requirements of 40 CFR 60 Subpart D <sub>b</sub> 4. Opacity Monitor meeting the requirements of 40 CFR 60 Subpart D <sub>b</sub>	1. CP/OP # 075-0065 2. 40 CFR Subpart D <sub>b</sub> ; 40 CFR 60.47b(a) & (f)
EMU 4	Detroit Diesel Starter Engine Model # 12V-71-IT, Engine # 7123-7300	5.81 MMBtu/hr	None	None	CP/OP # 075-0150
EMU 12	Safety Kleen Model #30 Metal Parts Cleaner	17 gallon solvent fill	None	None	None
EMU 15	Centrifugal chiller	1800 ton of cooling capacity (5,000 lbs. of Freon 114)	None	None	40 CFR Subpart 82
EMU 16	Centrifugal chiller	1800 ton of cooling capacity (5,000 lbs. of Freon 114)	None	None	40 CFR Subpart 82
GEMU 1	EMU 5 to EMU 8	As above	As above	As above	As above
GEMU 2	EMU 15 and EMU 16	As above	As above	As above	As above

\* It is not intended to incorporate by reference these NSR Permits, Orders, or Registrations into this Title V permit.

The Permittee shall be allowed to operate under the following scenarios without notifying the Commissioner, provided that such operations are explicitly provided for and described in the table below. The Permittee shall record contemporaneously with the operation of emission units, the operating scenario under which each emissions unit is operating in a log to be kept at the subject premises.

## Section II: Emission Unit Description

**TABLE II.B: EMISSIONS UNIT IDENTIFICATION, SOS, AND AOS**

Identification of Operating Scenarios	Emissions Unit(s) Associated with the Scenarios	Description of Scenarios
SOS	EMU 1 and EMU 2	Both Units firing natural gas. EMU 2 shall only operate when EMU 1 is operating.
SOS	EMU 4	EMU 4 is the starter engine for EMU 1. It operates during start-up and shutdown of EMU 1, during washing of the turbine blades, and for engine testing and maintenance. EMU 4 operates on diesel oil.
SOS	EMU 12	Solvent used is petroleum naphtha.
SOS	GEMU 2	Units using Freon 114
AOS-1	EMU 1, 2, 4, 12, & GEMU 2.	EMU 1 & 2 firing #2 fuel oil, $\leq 0.3\%$ sulfur by weight. EMU 2 shall only operate when EMU 1 is operating. The other units as stated in SOS.
AOS-2	EMU 1, 2, 4, 12, & GEMU 2.	Interchangeable operation of EMU 1 and EMU 2 on different fuels (#2 fuel oil and natural gas). EMU 2 shall only operate when EMU 1 is operating. The other units as stated in SOS.
AOS-3	EMU 1, 4, 12, & GEMU 2.	EMU 1 firing natural gas. The other units as stated in SOS.
AOS-4	EMU 1, 4, 12, & GEMU 2.	EMU 1 firing #2 fuel oil, $\leq 0.3\%$ sulfur by weight. The other units as stated in SOS.
AOS-5	EMU 3, 12, & GEMU 2.	EMU 3 firing natural gas. EMU 3 shall only operate when EMU 2 is not operating (i.e. EMU 1 and EMU 3 may operate simultaneously, typically during start-up or shutdown of EMU 1 or while performing emissions testing or RATA on EMU 3, as long as EMU 2 is not also operating). The other units as stated in SOS.
AOS-6	EMU 3, 12, & GEMU 2.	EMU 3 firing #2 fuel oil, $\leq 0.3\%$ sulfur by weight. EMU 3 shall only operate when EMU 2 is not operating (i.e. EMU 1 and EMU 3 may operate simultaneously, typically during start-up or shutdown of EMU 1 or while performing emissions testing or RATA on EMU 3, as long as EMU 2 is not also operating). The other units as stated in SOS.

### Section III: Applicable Requirements

The following tables contain terms and conditions for the operation of each identified Emission Unit, and Operating Scenario regulated by this permit.

#### A. EMISSION UNITS 1 AND 2

Table III.A: Emission Units 1 and 2 (EMU 1 & 2)			
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations
SOS, AOS-1, AOS-2, AOS-3, AOS-4	1. NO <sub>x</sub>	<ul style="list-style-type: none"> <li>i. The NO<sub>x</sub> emissions when firing natural gas in EMU 1 or in EMU 1 &amp; 2, shall not exceed 42 ppmvd @ 15% O<sub>2</sub> (0.149 lb/MMBtu) except during periods of start-up or shut-down. In addition, the NO<sub>x</sub> target level when firing natural gas shall be 30 ppmvd @ 15% O<sub>2</sub>.</li> <li>ii. The NO<sub>x</sub> emissions when firing natural gas in EMU 1, shall not exceed 81.5 lb/hr.</li> <li>iii. The NO<sub>x</sub> emissions when firing natural gas in EMU 1 &amp; 2 shall not exceed 107.4 lb/hr.</li> <li>iv. The NO<sub>x</sub> emissions when firing #2 fuel oil in EMU 1 or in EMU 1 &amp; 2, shall not exceed 62 ppmvd @ 15% O<sub>2</sub> (0.24 lb/MMBtu) except during periods of start-up or shut-down. In addition, the NO<sub>x</sub> target level when firing #2 fuel oil shall be 60 ppmvd @ 15% O<sub>2</sub>.</li> <li>v. The NO<sub>x</sub> emissions when firing #2 fuel oil in EMU 1, shall not exceed 124.9 lb/hr.</li> <li>vi. The NO<sub>x</sub> emissions when firing #2 fuel oil in EMU 1 &amp; 2, shall not exceed 151.5 lb/hr.</li> <li>vii. The NO<sub>x</sub> emissions when firing natural gas in EMU 1 and #2 fuel oil in EMU 2 shall not exceed 107.4 lb/hr.</li> <li>viii. The NO<sub>x</sub> emissions when firing #2 fuel oil in EMU 1 and natural gas in EMU 2 shall not exceed 150.8 lb/hr.</li> <li>ix. The total NO<sub>x</sub> emissions from EMU 1, 2, &amp; 3 shall not exceed 700 tpy.</li> <li>x. For start-up and shutdown periods, the NO<sub>x</sub> emissions limit shall be 94 ppmv @ 15% O<sub>2</sub> when firing either natural gas or #2 fuel oil.</li> <li>xi. The non-ozone seasonal average actual NO<sub>x</sub> emission rate for EMU 1 shall not exceed 0.15 lbs/MMBtu.</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0064</li> <li>ii. CP/OP # 075-0064</li> <li>iii. CP/OP # 075-0064</li> <li>iv. CP/OP # 075-0064</li> <li>v. CP/OP # 075-0064</li> <li>vi. CP/OP # 075-0064</li> <li>vii. CP/OP # 075-0064</li> <li>viii. CP/OP # 075-0064</li> <li>ix. CP/OP # 075-0064</li> <li>x. CP/OP # 075-0064</li> <li>xi. Order #8249</li> </ul>
SOS, AOS-1, AOS-2, AOS-3, AOS-4	2. NO <sub>x</sub> Discrete Emission Reduction Credits (DERCs)	<ul style="list-style-type: none"> <li>i. During the non-ozone season, the permittee intends to acquire DERCs for EMU 1 at the facility until May 1, 2007 in accordance with Section 22a-174-2(j) of the Regulations.</li> </ul>	<ul style="list-style-type: none"> <li>i. Order #8249</li> </ul>

### Section III: Applicable Requirements

**Table III.A: Emission Units 1 and 2 (EMU 1 & 2)**

Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations
SOS, AOS-1, AOS-2, AOS-3, AOS-4	3. SO <sub>x</sub>	<ul style="list-style-type: none"> <li>i. The SO<sub>x</sub> emissions when firing natural gas in EMU 1 or in EMU 1 &amp; 2 shall not exceed 0.0006 lb/MMBtu.</li> <li>ii. The SO<sub>x</sub> emissions when firing natural gas in EMU 1, shall not exceed 0.33 lb/hr.</li> <li>iii. The SO<sub>x</sub> emissions when firing natural gas in EMU 1 &amp; 2, shall not exceed 0.45 lb/hr.</li> <li>iv. The SO<sub>x</sub> emissions when firing #2 fuel oil in EMU 1 or in EMU 1 &amp; 2, shall not exceed 60 ppmvd @ 15% O<sub>2</sub> (0.306 lb/MMBtu).</li> <li>v. The SO<sub>x</sub> emissions when firing #2 fuel oil in EMU 1, shall not exceed 159.6 lb/hr.</li> <li>vi. The SO<sub>x</sub> emissions when firing #2 fuel oil in EMU 1 &amp; 2, shall not exceed 217.0 lb/hr.</li> <li>vii. The total SO<sub>x</sub> emissions from EMU 1, 2, &amp; 3 shall not exceed 1099.3 tpy.</li> <li>viii. For start-up and shutdown periods, the applicable emissions limit for SO<sub>2</sub> shall be determined on an lb/hr basis.</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0064</li> <li>ii. CP/OP # 075-0064</li> <li>iii. CP/OP # 075-0064</li> <li>iv. CP/OP # 075-0064</li> <li>v. CP/OP # 075-0064</li> <li>vi. CP/OP # 075-0064</li> <li>vii. CP/OP # 075-0064</li> <li>viii. CP/OP # 075-0064</li> </ul>
SOS, AOS-1, AOS-2, AOS-3, AOS-4	4. TSP	<ul style="list-style-type: none"> <li>i. The TSP emissions when firing natural gas in EMU 1 or in EMU 1 &amp; 2 shall not exceed 0.0136 lb/MMBtu.</li> <li>ii. The TSP emissions when firing natural gas in EMU 1, shall not exceed 7.45 lb/hr.</li> <li>iii. The TSP emissions when firing natural gas in EMU 1 &amp; 2 shall not exceed 9.97 lb/hr or 0.0136 lb/MMBtu.</li> <li>iv. The TSP emissions when firing #2 fuel oil in EMU 1 or in EMU 1 &amp; 2, shall not exceed 0.035 lb/MMBtu.</li> <li>v. The TSP emissions when firing #2 fuel oil in EMU 1, shall not exceed 18.47 lb/hr.</li> <li>vi. The TSP emissions when firing #2 fuel oil in EMU 1 &amp; 2, shall not exceed 21.10 lb/hr.</li> <li>vii. The total TSP emissions from EMU 1, 2, &amp; 3 shall not exceed 92.3 tpy.</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0064</li> <li>ii. CP/OP # 075-0064</li> <li>iii. CP/OP # 075-0064</li> <li>iv. CP/OP # 075-0064</li> <li>v. CP/OP # 075-0064</li> <li>vi. CP/OP # 075-0064</li> <li>vii. CP/OP # 075-0064</li> </ul>

### Section III: Applicable Requirements

**Table III.A: Emission Units 1 and 2 (EMU 1 & 2)**

<b>Operating Scenarios Identification</b>	<b>Pollutants or Process Parameters</b>	<b>Limitations or Restrictions</b>	<b>Applicable Regulatory References/ Citations</b>
SOS, AOS-1, AOS-2, AOS-3, AOS-4	5. VOC	<ul style="list-style-type: none"> <li>i. The VOC emissions when firing natural gas in EMU 1 or in EMU 1 &amp; 2 shall not exceed 0.035 lb/MMBtu.</li> <li>ii. The VOC emissions when firing natural gas in EMU 1 shall not exceed 19.19 lb/hr.</li> <li>iii. The VOC emissions when firing natural gas in EMU 1 &amp; 2 shall not exceed 21.70 lb/hr.</li> <li>iv. The VOC emissions when firing #2 fuel oil in EMU 1 or in EMU 1 &amp; 2, shall not exceed 0.035 lb/MMBtu.</li> <li>v. The VOC emissions when firing #2 fuel oil in EMU 1, shall not exceed 18.20 lb/hr.</li> <li>vi. The VOC emissions when firing #2 fuel oil in EMU 1 &amp; 2, shall not exceed 20.80 lb/hr.</li> <li>vii. The total VOC emissions from EMU 1, 2, &amp; 3 shall not exceed 93.7 tpy.</li> <li>viii. For start-up and shutdown periods, the applicable emissions limit for VOC shall be determined on an lb/hr basis.</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0064</li> <li>ii. CP/OP # 075-0064</li> <li>iii. CP/OP # 075-0064</li> <li>iv. CP/OP # 075-0064</li> <li>v. CP/OP # 075-0064</li> <li>vi. CP/OP # 075-0064</li> <li>vii. CP/OP # 075-0064</li> <li>viii. CP/OP # 075-0064</li> </ul>
SOS, AOS-1, AOS-2, AOS-3, AOS-4	6. CO	<ul style="list-style-type: none"> <li>i. The CO emissions when firing natural gas in EMU 1 or in EMU 1 &amp; 2 shall not exceed 0.112 lb/MMBtu.</li> <li>ii. The CO emissions when firing natural gas in EMU 1 shall not exceed 61.21 lb/hr.</li> <li>iii. The CO emissions when firing natural gas in EMU 1 &amp; 2 shall not exceed 73.0 lb/hr or 0.112 lb/MMBtu.</li> <li>iv. The CO emissions when firing #2 fuel oil in EMU 1 or in EMU 1 &amp; 2, shall not exceed 0.109 lb/MMBtu.</li> <li>v. The CO emissions when firing #2 fuel oil in EMU 1, shall not exceed 59.60 lb/hr.</li> <li>vi. The CO emissions when firing #2 fuel oil in EMU 1 &amp; 2, shall not exceed 68.80 lb/hr.</li> <li>vii. The total CO emissions from EMU 1, 2, &amp; 3 shall not exceed 313.7 tpy.</li> <li>viii. For start-up and shutdown periods, the applicable emissions limit for CO shall be determined on an lb/hr basis.</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0064</li> <li>ii. CP/OP # 075-0064</li> <li>iii. CP/OP # 075-0064</li> <li>iv. CP/OP # 075-0064</li> <li>v. CP/OP # 075-0064</li> <li>vi. CP/OP # 075-0064</li> <li>vii. CP/OP # 075-0064</li> <li>viii. CP/OP # 075-0064</li> </ul>
SOS, AOS-1, AOS-2, AOS-3, AOS-4	7. Pb	<ul style="list-style-type: none"> <li>i. The Pb emissions when firing #2 fuel oil in EMU 1 or in EMU 1 &amp; 2, shall not exceed 0.000014 lb/MMBtu.</li> <li>ii. The Pb emissions when firing #2 fuel oil in EMU 1, shall not exceed 0.0051 lb/hr.</li> <li>iii. The Pb emissions when firing #2 fuel oil in EMU 1 &amp; 2, shall not exceed 0.006 lb/hr.</li> <li>iv. The total Pb emissions from EMU 1, 2, &amp; 3 shall not exceed 0.0263 tpy</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0064</li> <li>ii. CP/OP # 075-0064</li> <li>iii. CP/OP # 075-0064</li> <li>iv. CP/OP # 075-0064</li> </ul>

### Section III: Applicable Requirements

**Table III.A: Emission Units 1 and 2 (EMU 1 & 2)**

Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations
SOS, AOS-1, AOS-2, AOS-3, AOS-4	8. H <sub>2</sub> SO <sub>4</sub>	<ul style="list-style-type: none"> <li>i. The H<sub>2</sub>SO<sub>4</sub> emissions when firing natural gas in EMU 1 shall not exceed 0.0000081 lb/MMBtu or 0.004 lb/hr.</li> <li>ii. The H<sub>2</sub>SO<sub>4</sub> emissions when firing natural gas in EMU 1 &amp; 2 shall not exceed 0.0000081 lb/MMBtu or 0.005 lb/hr.</li> <li>iii. The H<sub>2</sub>SO<sub>4</sub> emissions when firing #2 fuel oil in EMU 1, shall not exceed 1.52 ppmvd @ 15% O<sub>2</sub> (0.0128 lb/MMBtu) or 4.85 lb/hr.</li> <li>iv. The H<sub>2</sub>SO<sub>4</sub> emissions when firing #2 fuel oil in EMU 1 &amp; 2, shall not exceed 3.71 ppmvd @ 15% O<sub>2</sub> (0.0213 lb/MMBtu) or 10.4 lb/hr.</li> <li>v. The total H<sub>2</sub>SO<sub>4</sub> emissions from EMU 1, 2, &amp; 3 shall not exceed 47.70 tpy</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0064</li> <li>ii. CP/OP # 075-0064</li> <li>iii. CP/OP # 075-0064</li> <li>iv. CP/OP # 075-0064</li> <li>v. CP/OP # 075-0064</li> </ul>
SOS, AOS-1, AOS-2, AOS-3, AOS-4	9. Opacity	<ul style="list-style-type: none"> <li>i. The opacity shall be less than or equal to 20% with an averaging period of 6 minutes.</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0064</li> </ul>
SOS, AOS-1, AOS-2, AOS-3, AOS-4	10. Fuel Consumption	<ul style="list-style-type: none"> <li>i. The maximum hourly fuel consumption for EMU 1 when firing natural gas shall be 532,233 cf/hr.</li> <li>ii. The maximum hourly fuel consumption for EMU 1 when firing #2 fuel oil shall be 3693.6 gal/hr.</li> <li>iii. The maximum hourly fuel consumption for EMU 2 when firing natural gas shall be 185,049 cf/hr.</li> <li>iv. The maximum hourly fuel consumption for EMU 2 when firing #2 fuel oil shall be 1329.1 gal/hr.</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0064</li> <li>ii. CP/OP # 075-0064</li> <li>iii. CP/OP # 075-0064</li> <li>iv. CP/OP # 075-0064</li> </ul>
SOS, AOS-1, AOS-2, AOS-3, AOS-4	11. Maximum Rated Capacity	<ul style="list-style-type: none"> <li>i. The maximum rated capacity for EMU 1 when firing natural gas shall be 548.2 MMBtu/hr.</li> <li>ii. The maximum rated capacity for EMU 1 when firing #2 fuel oil shall be 520.8 MMBtu/hr.</li> <li>iii. The maximum rated capacity for EMU 2 when firing natural gas shall be 190.6 MMBtu/hr.</li> <li>iv. The maximum rated capacity for EMU 2 when firing #2 fuel oil shall be 187.4 MMBtu/hr.</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0064</li> <li>ii. CP/OP # 075-0064</li> <li>iii. CP/OP # 075-0064</li> <li>iv. CP/OP # 075-0064</li> </ul>
SOS, AOS-1, AOS-2, AOS-3, AOS-4	12. Shutdown limits	<ul style="list-style-type: none"> <li>i. EMU 1 shall be shutdown when measured NOx emissions levels acceptable to the Commissioner or CEM NOx data based on 24 consecutive 1-hr block averages exceeds 42 ppmvd @ 15% O<sub>2</sub> when firing natural gas or 62 ppmvd @ 15% O<sub>2</sub> when firing #2 fuel oil.</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP #075-0064</li> </ul>

## Section III: Applicable Requirements

### B. EMISSION UNIT 3

**Table III.B: Emission Unit 3 (EMU 3)**

Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations
AOS-5, AOS-6	1. NO <sub>x</sub>	<ul style="list-style-type: none"> <li>i. The NO<sub>x</sub> emissions when firing natural gas shall not exceed 37 ppmvd @ 15% O<sub>2</sub> (0.136 lb/MMBtu) or 26.49 lb/hr.</li> <li>ii. The NO<sub>x</sub> emissions when firing #2 fuel oil shall not exceed 37 ppmvd @ 15% O<sub>2</sub> (0.142 lb/MMBtu) or 26.62 lb/hr.</li> <li>iii. The total NO<sub>x</sub> emissions from EMU 1, 2, &amp; 3 shall not exceed 700 tpy.</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0065</li> <li>ii. CP/OP # 075-0065</li> <li>iii. CP/OP # 075-0065</li> </ul>
AOS-5, AOS-6	2. SO <sub>x</sub>	<ul style="list-style-type: none"> <li>i. The SO<sub>x</sub> emissions when firing natural gas shall not exceed 0.00058 lb/MMBtu, or 0.11 lb/hr.</li> <li>ii. The SO<sub>x</sub> emissions when firing #2 fuel oil shall not exceed 60 ppmvd @ 15% O<sub>2</sub> (0.306 lb/MMBtu) or 57.4 lb/hr.</li> <li>iii. The total SO<sub>x</sub> emissions from EMU 1, 2, &amp; 3 shall not exceed 1099.3 tpy.</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0065</li> <li>ii. CP/OP # 075-0065</li> <li>iii. CP/OP # 075-0065</li> </ul>
AOS-5, AOS-6	3. TSP	<ul style="list-style-type: none"> <li>i. The TSP emissions when firing natural gas shall not exceed 0.0049 lb/MMBtu or 0.95 lb/hr.</li> <li>ii. The TSP emissions when firing #2 fuel oil shall not exceed 0.014 lb/MMBtu or 2.66 lb/hr.</li> <li>iii. The total TSP emissions from EMU 1, 2, &amp; 3 shall not exceed 92.3 tpy.</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0065</li> <li>ii. CP/OP # 075-0065</li> <li>iii. CP/OP # 075-0065</li> </ul>
AOS-5, AOS-6	4. VOC	<ul style="list-style-type: none"> <li>i. The VOC emissions when firing natural gas shall not exceed 0.013 lb/MMBtu or 2.53 lb/hr.</li> <li>ii. The VOC emissions when firing #2 fuel oil shall not exceed 0.016 lb/MMBtu or 3.0 lb/hr.</li> <li>iii. The total VOC emissions from EMU 1, 2, &amp; 3 shall not exceed 93.7 tpy.</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0065</li> <li>ii. CP/OP # 075-0065</li> <li>iii. CP/OP # 075-0065</li> </ul>
AOS-5, AOS-6	5. CO	<ul style="list-style-type: none"> <li>i. The CO emissions when firing natural gas shall not exceed 0.039 lb/MMBtu or 7.56 lb/hr.</li> <li>ii. The CO emissions when firing #2 fuel oil shall not exceed 0.035 lb/MMBtu or 6.65 lb/hr.</li> <li>iii. The total CO emissions from EMU 1, 2, &amp; 3 shall not exceed 313.7 tpy.</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0065</li> <li>ii. CP/OP # 075-0065</li> <li>iii. CP/OP # 075-0065</li> </ul>

### Section III: Applicable Requirements

**Table III.B: Emission Unit 3 (EMU 3), Continued**

Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations
AOS-5, AOS-6	6. Pb	<ul style="list-style-type: none"> <li>i. The Pb emissions when firing #2 fuel oil shall not exceed 0.000003 lb/MMBtu.</li> <li>ii. The total Pb emissions from EMU 1, 2, &amp; 3 shall not exceed 0.0263 tpy</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0065</li> <li>ii. CP/OP # 075-0065</li> </ul>
AOS-5, AOS-6	7. H <sub>2</sub> SO <sub>4</sub>	<ul style="list-style-type: none"> <li>i. The H<sub>2</sub>SO<sub>4</sub> emissions when firing natural gas shall not exceed 0.0000081 lb/MMBtu or 0.001 lb/hr.</li> <li>ii. The H<sub>2</sub>SO<sub>4</sub> emissions when firing #2 fuel oil shall not exceed 1.0 ppmvd @ 15% O<sub>2</sub> (0.0052 lb/MMBtu) or 0.98 lb/hr.</li> <li>iii. The total H<sub>2</sub>SO<sub>4</sub> emissions from EMU 1, 2, &amp; 3 shall not exceed 47.70 tpy</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0065</li> <li>ii. CP/OP # 075-0065</li> <li>iii. CP/OP # 075-0065</li> </ul>
AOS-5, AOS-6	8. Fuel Consumption	<ul style="list-style-type: none"> <li>i. The maximum hourly fuel consumption when firing natural gas shall be 189,126 cf/hr.</li> <li>ii. The maximum hourly fuel consumption when firing #2 fuel oil shall be 1329.1 gal/hr.</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0065</li> <li>ii. CP/OP # 075-0065</li> </ul>
AOS-5, AOS-6	9. Opacity	<ul style="list-style-type: none"> <li>i. The opacity shall be less than or equal to 20% with an averaging period of 6 minutes.</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0065</li> </ul>
AOS-5, AOS-6	10. Maximum Rated Capacity	<ul style="list-style-type: none"> <li>i. The maximum rated capacity when firing natural gas shall be 194.8 MMBtu/hr.</li> <li>ii. The maximum rated capacity when firing #2 fuel oil shall be 187.4 MMBtu/hr.</li> </ul>	<ul style="list-style-type: none"> <li>i. CP/OP # 075-0065</li> <li>ii. CP/OP # 075-0065</li> </ul>



### Section III: Applicable Requirements

#### C. EMISSION UNIT 4

Table III.C: Emission Unit 4 (EMU 4)			
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations
SOS, AOS-1, AOS-2, AOS-3, AOS-4	1. NO <sub>x</sub>	i. The NO <sub>x</sub> emissions shall not exceed 0.888 tpy.	i. CP/OP # 075-0150
SOS, AOS-1, AOS-2, AOS-3, AOS-4	2. SO <sub>x</sub>	i. The SO <sub>x</sub> emissions shall not exceed 0.087 tpy.	i. CP/OP # 075-0150
SOS, AOS-1, AOS-2, AOS-3, AOS-4	3. PM-10	i. The PM-10 emissions shall not exceed 0.016 tpy.	i. CP/OP # 075-0150
SOS, AOS-1, AOS-2, AOS-3, AOS-4	4. VOC	i. The VOC emissions shall not exceed 0.026 tpy.	i. CP/OP # 075-0150
SOS, AOS-1, AOS-2, AOS-3, AOS-4	5. CO	i. The CO emissions shall not exceed 0.232 tpy.	i. CP/OP # 075-0150
SOS, AOS-1, AOS-2, AOS-3, AOS-4	6. Fuel Consumption	i. This fuel consumption shall be restricted to 4150 gallons of diesel per year or less per consecutive twelve (12) month period of operation	i. CP/OP # 075-0150

### Section III: Applicable Requirements

#### D. EMISSION UNIT 12

Table III.E: Emission Unit 12 (EMU 12)			
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations
SOS, AOS-1, AOS-2, AOS-3, AOS-4, AOS-5, AOS-6	1. VOC	<ul style="list-style-type: none"> <li>i. The permittee shall equip the unit with a cover designed so that it can be easily operated with one hand.</li> <li>ii. The permittee shall equip the unit with a facility for draining cleaned parts constructed internally so that parts are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the unit.</li> <li>iii. The permittee shall install one of the following control devices if the solvent vapor pressure is greater than 4.3 kilo pascals (33 millimeters of mercury or 0.6 pounds per square inch) measured at 38 degrees Celsius (100 degrees Fahrenheit) or if the solvent is heated above 50 degrees Celsius (120 degrees Fahrenheit): <ul style="list-style-type: none"> <li>a. freeboard that gives a freeboard ratio greater than or equal to 0.7;</li> <li>b. water cover (solvent must be insoluble in and heavier than water); or</li> <li>c. other systems of equivalent control, equal to that of a "refrigerated chiller" or carbon absorption approved by the Commissioner by permit or order.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>i. RCSA 22a-174-20(1)(3)(A)</li> <li>ii. RCSA 22a-174-20(1)(3)(B)</li> <li>iii. RCSA 22a-174-20(1)(3)(G)</li> </ul>

### **Section III: Applicable Requirements**

#### **E. NO<sub>x</sub> BUDGET PROGRAM**

Emission Unit 1 (EMU 1) is a NO<sub>x</sub> budget source and therefore is subject to RCSA Section 22a-174-22a and Section 22a-174-22b. The unit shall comply with all applicable requirements stated in RCSA Section 22a-174-22a and Section 22a-174-22b.

#### **F. 112(r) ACCIDENTAL RELEASE REQUIREMENTS**

Should any of the units, as defined in 40 CFR section 68.3, become subject to the accidental release prevention regulations in part 68, then the permittee shall submit a risk management plan (RMP) pursuant to 40 CFR section 68.12 by the date specified in section 68.10 and shall certify compliance with the requirements of part 68 as part of the annual compliance certification as required by 40 CFR section 70.6(c)(5).

#### **G. STRATOSPHERIC OZONE DEPLETING SUBSTANCES (40 CFR SUBPART 82) REQUIREMENTS FOR GEMU 2**

The permittee shall comply with the standards for recycling and emissions reduction of products using ozone depleting substances pursuant to 40 CFR Part 82, Subpart E (Labeling of Products Using Ozone-Depleting Substances) and Subpart F (Recycling and Emission Reduction). The specific subsections that may apply, depending on whether a El Paso (CDECCA) technician or an outside contractor is performing a covered activity, are as follows:

**Subpart E:**     Section 82.102  
                    Section 82.104  
                    Section 82.106  
                    Section 82.108  
                    Section 82.110  
                    Section 82.112; and  
                    Section 82.124

**Subpart F:**     Section 82.154(a), (b), (e), (i), and (n)  
                    Section 82.156(a), (b), (c), (d), (e), and (i)  
                    Section 82.161  
                    Section 82.166(b), (k), (l), (m), (n), (o), (p), and (q)

#### **H. ACID RAIN PROGRAM – SO<sub>2</sub> ALLOWANCE ALLOCATIONS**

SO<sub>2</sub> Allowance Allocation (tons/year) for EMU1, Under Tables 2, 3, or 4 of 40 CFR Part 73 [Acid Rain Permit #75-TIV-001]:

For the term of this Permit, or until 2007, whichever is earlier, EMU 1 shall have 0 allowances per year.

## Section IV: Compliance Demonstration

### A. EMISSION UNITS 1 AND 2 (EMU 1 & 2)

#### 1. Monitoring and Testing Requirements

##### *i. Pollutants or Process Parameters: NO<sub>x</sub>, Shutdown Limits*

- a. The permittee shall install, calibrate, maintain, operate, and certify a continuous emission monitoring system (CEMS) and recording systems for NO<sub>x</sub>. [CP/OP #075-0064; RCSA 22a-174-22(k)(3)]
- b. The CEM shall be installed, calibrated, operated and tested in accordance with CT DEP Continuous Emission Monitoring Guideline (dated August 19, 1996), RCSA 22a-174-22a(i), and with the requirements specified in 40 CFR 60 Subpart A, Appendix B and Appendix F, as may be amended from time to time. [CP/OP # 075-0064]
- c. The performance or quality assurance testing of the CEM shall be conducted in accordance with a testing protocol approved by the Commissioner. [RCSA 22a-174-22(k)(3)]
- d. The permittee shall use data recorded by the CEM and any other records and reports to determine compliance with NO<sub>x</sub> emissions. The CEM shall be capable of calculating emission concentrations corrected to 15% O<sub>2</sub> at ISO standard conditions. [CP/OP #075-0064; RCSA 22a-174-22(l)(7)]
- e. The averaging times for the emission limitations with the use of the CEM shall be one (1) hour block average. This shall include all periods of operation, including startup, shutdown, and malfunction. Start-up, shutdown or malfunction periods shall not exceed 180 minutes. The hourly averages shall contain valid data points for at least 75% of the hour. [CP/OP #075-0064; RCSA 22a-174-22(k)(4)]
- f. The permittee shall utilize CEMs for NO<sub>x</sub> in accordance with 40 CFR 60.334(b) as an alternative to respectively, monitoring of the water-to-fuel ratio required under 40 CFR 60.334(a) to estimate NO<sub>x</sub> emissions, and monitoring of the nitrogen content of the fuel under 40 CFR 60.334(b). [40 CFR 60.334(b); CP/OP #075-0064]
- g. The monitor data availability shall be no less than 90% on a quarterly basis. Periods of unavailability that are the results of daily calibrations and other QA activities shall be included as downtime. [CP/OP #075-0064]
- h. The NO<sub>x</sub> emissions shall be controlled with steam injection. The steam/fuel ratio shall not exceed 1.51/1. The maximum allowable rate of steam injection shall be 36,000 lb/hr. [CP/OP #075-0064]
- i. The nitrogen oxide standards shall apply at all times including periods of startup, shutdown, or malfunction. [CP/OP #075-0064]
- j. Annual emissions shall be verified by the permittee by, adding the current month's emissions to the previous eleven months' emissions. [RCSA 22a-174-33(j)(1)(K)(ii)]
- k. If the NO<sub>x</sub> emission target limits (ppmvd) given in Section III.A.1.i and iv of this permit (30 ppmvd @ 15% O<sub>2</sub> for natural gas firing and 60 ppmvd @ 15% O<sub>2</sub> for #2 oil firing) are exceeded by 6 ppmvd @ 15% O<sub>2</sub> based upon CEM data (24 consecutive 1-hr block averages), the permittee shall immediately make operational changes designed to bring NO<sub>x</sub> emissions in line with the given limitations. [CP/OP #075-0064]
- l. The unit shall be shut down when measured NO<sub>x</sub> emissions levels acceptable to the Commissioner or CEM NO<sub>x</sub> data based on 24 consecutive 1-hr block averages exceeds 42 ppmvd @ 15% O<sub>2</sub> when firing natural gas or 62 ppmvd @ 15% O<sub>2</sub> when firing #2 fuel oil. [CP/OP # 075-0064]
- m. The permittee shall comply with RCSA 22a-174-22 in accordance with the submitted and approved compliance plan to the Department. [RCSA 22a-174-22(m)]

## Section IV: Compliance Demonstration

EMU 1 & 2

- n. If required by the Commissioner, the permittee shall measure NO<sub>x</sub> emissions using EPA Method 7 stack test. [RCSA 22a-174-5(e)(2)]
- ii. *Pollutants or Process Parameters: NO<sub>x</sub>, DERCs Requirements*
  - a. The Commissioner, in accordance with RCSA Section 22a-174-22(d)(3) of the Regulations, hereby allows the permittee to comply with Section 22a-174-22(d)(2) of the Regulations through use of DERC trading for EMU 1. [Connecticut Trading Agreement and Order #8249]
  - b. The permittee shall comply with Section 22a-174-22 of the Regulations through emission reduction trading for EMU 1. Until the permittee achieves permanent compliance with the emission standard in Section 22a-174-22(e) of the Regulations or by May 1, 2007, whichever occurs earlier: [Connecticut Trading Agreement and Order #8249]
    - 1. The permittee shall use approved DERCs as required; and
    - 2. The permittee shall have in its possession sufficient approved DERCs to meet applicable NO<sub>x</sub> emission limits.
  - c. Starting on October 1, 2004, and until May 1, 2007, before the first day of each non-ozone season, the permittee shall have in its possession sufficient approved DERCs for EMU 1 based on the following: [Connecticut Trading Agreement and Order #8249]
    - 1. During the non-ozone season: The permittee shall meet a non-ozone seasonal average emission limit of 0.15 lbs/MMBtu. Prior to October 1, 2004, October 1, 2005 and October 1, 2006, the permittee shall estimate and acquire the amount of DERCs or allowances required for such non-ozone season needed to comply with Section 22a-174-22(e)(3) of the Regulations as follows:  
  
$$\text{Estimated DERCs (tons)} = [\text{Estimated fuel use in MMBtu from October 1 through April 30} \times (\text{estimated seasonal average NO}_x \text{ emission rate in lbs/MMBtu during October 1 through April 30} - (0.95 \times 0.15 \text{ lbs/MMBtu}))] \div 2000 \text{ pounds/ton.}$$
    - 2. No later than May 31, 2005, May 31, 2006, and May 31, 2007, when EMU 1 has a non-ozone seasonal average actual NO<sub>x</sub> emission rate exceeding 0.15 lbs/MMBtu, the permittee shall calculate and permanently retire DERCs used in the preceding non-ozone season as follows:  
  
$$\text{Actual DERCs (tons)} = [\text{Actual fuel use in MMBtu from October 1 through April 30} \times (\text{actual seasonal average NO}_x \text{ emission rate in lbs/MMBtu during October 1 through April 30} - (0.95 \times 0.15 \text{ lbs/MMBtu}))] \div 2000 \text{ pounds/ton.}$$

## Section IV: Compliance Demonstration

EMU 1 & 2

3. When the non-ozone season CEM-recorded NO<sub>x</sub> emission rate is used to calculate DERCs used by EMU 1, the permittee shall include missing data calculated in accordance with missing data substitution procedures under 40 CFR Part 75.
  4. The permittee shall not exceed any NO<sub>x</sub> permit limitations for EMU 1
- d. Pursuant to Section 22a-174-22(d)(3) of the Regulations, the permittee may use NO<sub>x</sub> allowances, pursuant to Section 22a-174-22(j) of the Regulations to achieve all or a portion of the reductions required by Section 22a-174-22 of the Regulations. Any allowance used for compliance with Section 22a-174-22(e) of the Regulations shall be subject to all restrictions and/or requirements applicable to DERCs contained in this permit. Each allowance used for compliance with Section 22a-174-22 of the Regulations shall be equivalent to one discrete emission reduction credit and shall be deducted from the permittee's NO<sub>x</sub> Budget Program compliance account upon such use. Allowances shall be considered used for compliance with Section 22a-174-22 of the Regulations when they are transferred from the facility's compliance account or overdraft account to a State of Connecticut NO<sub>x</sub> allowance retirement account, account ID CT0000000300 in the NO<sub>x</sub> Allowance Tracking System. [Connecticut Trading Agreement and Order #8249]
  - e. DERC Shortfall: At a minimum, DERCs required shall be adjusted upwards by 100% if DERCs are not in the permittee's possession for use prior to the first day of each non-ozone season. However, nothing in this permit shall affect the Commissioner's authority to institute any proceeding or take any other action to require additional upward adjustment, based on the gravity of any alleged noncompliance or violation of law. The permittee shall permanently retire the quantity of DERCs equivalent to the excess emissions plus a 100% premium within sixty (60) days of the permittee's discovery of the DERC shortfall. The permittee shall certify and report any such DERC retirement to the Commissioner in accordance with Section IV.3.ii.c of this permit. [Connecticut Trading Agreement and Order #8249]
  - f. For the purposes of compliance with Section 22a-174-22 of the Regulations, DERCs/allowances shall only remain valid for five (5) calendar years from the year of the generation/allocation of such DERCs/allowances. DERCs/allowances generated/allocated more than five (5) calendar years ago are not valid for use for compliance with Section 22a-174-22 of the Regulations. [Connecticut Trading Agreement and Order #8249]
- iii. *Pollutants or Process Parameters: SO<sub>x</sub>*
    - a. The permittee shall monitor the sulfur content of the fuel in accordance with 40 CFR 60.334(h)(1), (3), (4). [40 CFR 60.334(h); CP/OP # 075-0064]
    - b. EMU 1 shall not exceed the SO<sub>2</sub> emission limitation of 0.015 percent by volume at 15% O<sub>2</sub> specified in 40 CFR 60.333. [CP/OP 075-0064]
    - c. If an SO<sub>2</sub> CEMS is used, at the permittee's option, the monitor data availability shall be no less than 90% on a quarterly basis, in accordance with CT DEP specifications. Periods of unavailability, which are the results of daily calibrations and other QA activities, shall be included as downtime. [CP/OP 075-0064]
    - d. The frequency of determining the sulfur content of the fuel shall be in accordance with 40 CFR 60.334(i). [40 CFR 60.334(i)]

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- e. The permittee shall comply with the sulfur dioxide emission limits for the in-line duct burner at all times, including periods of startup, shutdown, and malfunction. Compliance with this requirements shall be demonstrated by demonstrating that the #2 fuel oil meets the definition of very low sulfur oil by the methods in 40 CFR 60.42(j). [CP/OP #075-0064; 40 CFR 60.42b(g)&(j)]
  - f. Annual emissions shall be verified by the permittee, by adding the current month's emissions to the previous eleven months' emissions. [RCSA 22a-174-33(j)(1)(K)(ii)]
  - g. The unit shall be shut down by the permittee, when 24 consecutive 1-hour block averages exceed the permit limit. [CP/OP #075-0064; RCSA 22a-174-33(j)(1)(K)(ii)]
  - h. If required by the Commissioner, the permittee shall measure SO<sub>x</sub> emissions using EPA Method 6 stack test. [RCSA 22a-174-5(e)(2)]
- iv. *Pollutants or Process Parameters: TSP*
- a. The permittee shall verify emissions using the most recent performance test data and daily parametric monitoring and engineering calculations. [RCSA 22a-174-33(j)(1)(K)(ii)]
  - b. Annual emissions shall be verified by the permittee, by adding the current month's emissions to the previous eleven months' emissions. [RCSA 22a-174-33(j)(1)(K)(ii)]
  - c. The particulate matter standard shall apply at all times, except during periods of startup, shutdown or malfunction. [CP/OP #075-0064; 40 CFR 60.43b(f)]
  - d. If required by the Commissioner, the permittee shall measure TSP emissions using EPA Method 5 stack test. [RCSA 22a-174-5(e)(2)]
- v. *Pollutants or Process Parameters: VOC*
- a. The permittee shall verify emissions using the most recent performance test data and daily parametric monitoring and engineering calculations. [RCSA 22a-174-33(j)(1)(K)(ii)]
  - b. Annual emissions shall be verified by the permittee, by adding the current month's emissions to the previous eleven months' emissions. [RCSA 22a-174-33(j)(1)(K)(ii)]
  - c. If required by the Commissioner, the permittee shall measure VOC emissions using EPA Method 25 stack test. [RCSA 22a-174-5(e)(2)]
- vi. *Pollutants or Process Parameters: CO*
- a. The permittee shall verify emissions using the most recent performance test data and daily parametric monitoring and engineering calculations. [RCSA 22a-174-33(j)(1)(K)(ii)]
  - b. Annual emissions shall be verified by the permittee, by adding the current month's emissions to the previous eleven months' emissions. [RCSA 22a-174-33(j)(1)(K)(ii)]
  - c. If required by the Commissioner, the permittee shall measure CO emissions using EPA Method 10 stack test. [RCSA 22a-174-5(e)(2)]

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*vii. Pollutants or Process Parameters: Pb*

- a. The permittee shall verify emissions using the most recent performance test data and daily parametric monitoring and engineering calculations. [RCSA 22a-174-33(j)(1)(K)(ii)]
- b. Annual emissions shall be verified by the permittee, by adding the current month's emissions to the previous eleven months' emissions. [RCSA 22a-174-33(j)(1)(K)(ii)]
- c. If required by the Commissioner, the permittee shall measure Pb emissions using EPA Method 12 stack test. [RCSA 22a-174-5(e)(2)]

*viii. Pollutants or Process Parameters: H<sub>2</sub>SO<sub>4</sub>*

- a. The permittee shall verify emissions using the most recent performance test data and daily parametric monitoring and engineering calculations. [RCSA 22a-174-33(j)(1)(K)(ii)]
- b. Annual emissions shall be verified by the permittee, by adding the current month's emissions to the previous eleven months' emissions. [RCSA 22a-174-33(j)(1)(K)(ii)]
- c. If required by the Commissioner, the permittee shall measure H<sub>2</sub>SO<sub>4</sub> emissions using EPA Method 8 stack test. [RCSA 22a-174-5(e)(2)]

*ix. Pollutants or Process Parameters: Opacity*

- a. The CEM equipment shall be installed, calibrated, operated and tested in accordance with CP/OP # 075-0064.
- b. The permittee shall not cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. [CP/OP #075-0064; 40 CFR 60.43b(f)]
- c. Opacity shall be verified by the permittee, by using CEM data based on a 6-minute block average. [CP/OP #075-0064]
- d. The unit shall be shut down by the permittee, when 5 consecutive 6-minute block averages exceed 40%. [CP/OP #075-0064]
- e. The opacity standard shall apply at all times, except during periods of startup, shutdown or malfunction. [CP/OP #075-0064; 40 CFR 60.43b(f)]
- f. If required by the Commissioner, the permittee shall measure opacity using EPA Method 9 stack test. [RCSA 22a-174-5(e)(2)]

*ix. Pollutants or Process Parameters: Fuel Consumption, Maximum Rated Capacity*

- a. The permittee shall keep monthly and annual fuel consumption. [RCSA 22a-174-33(j)(1)(K)(ii)]



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### 2. Record Keeping Requirements

#### *i. Pollutants or Process Parameters: NO<sub>x</sub>*

- a. The permittee shall maintain records of the following information for each steam generating unit operating day: [40 CFR 60.49b(g)]
  1. Calendar date.
  2. The average hourly nitrogen oxides emission rates (expressed as NO<sub>2</sub>) (ng/J or lb/million Btu heat input) measured or predicted.
  3. The 30-day average nitrogen oxides emission rates (ng/J or lb/million Btu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days.
  4. Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the nitrogen oxides emissions, with the reasons for such excess emissions as well as a description of corrective actions taken.
  5. Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken.
  6. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data.
  7. Identification the times when the pollutant concentration exceeded full span of the continuous monitoring system.
  8. Description of any modifications to the continuous monitoring system that could affect the ability of the continuous monitoring system to comply with Performance Specification 2 or 3.
  9. Results of daily CEMS drift tests and quarterly accuracy assessments as required under 40 CFR 60 appendix F, Procedure 1.
- b. The permittee shall keep monthly and annual records of all fuel used, continuous emissions monitoring (if applicable), and operating hours. [RCSA 22a-174-22(l)(1)(C)]
- c. The permittee shall keep records of all tune-ups, repairs, replacement of parts and other maintenance done on the units (EMU 1 & 2). [RCSA 22a-174-22(l)(1)(D)]
- d. The permittee shall keep copies of all documents submitted to the Commissioner pursuant to RCSA 22a-174-22. [RCSA 22a-174-22(l)(1)(E)]
- e. The permittee shall keep all charts, electronically stored data, and printed records produced by the NO<sub>x</sub> continuous emissions monitor. [RCSA 22a-174-22(l)(1)(F)]
- f. The permittee shall keep procedures for calculating NO<sub>x</sub> emission rates. [RCSA 22a-174-22(l)(1)(G)]
- g. The permittee shall keep records of all performance evaluations, calibration checks and adjustments on CEM; a record of maintenance procedures; and all data necessary to complete the quarterly reports required by the Department. [RCSA 22a-174-22(l)(1)(I)]
- h. Within sixty (60) days of the completion of certification tests conducted on the CEM, the permittee shall submit a written report of the results of such testing to the Commissioner and the Administrator. [RCSA 22a-174-22(l)(3); 40 CFR 60.49b(b)]
- i. The permittee shall maintain reports of all monitoring and test data in accordance with RCSA 22a-174-4(d).

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*ii. Pollutants or Process Parameters: NO<sub>x</sub> DERCs Requirements*

- a. The permittee shall make and keep records for EMU 1 of: non-ozone season fuel use and fuel type; non-ozone season NO<sub>x</sub> emission rates, number of operating hours per non-ozone season, the number of invalid data hours of the total operating hours per non-ozone season; the number of DERCs in its possession, purchased and used (by serial number if assigned) each non-ozone season in accordance with the appropriate emission rates and limits in this permit. The permittee shall maintain and submit such records in accordance with Section 22a-174-22 of the Regulations. [Connecticut Trading Agreement and Order #8249]
- b. The permittee shall retain records and supporting documentation for a minimum of five years, commencing on the date such records were created. The permittee shall provide the records specified above to the Commissioner within thirty (30) days of receipt of a written request from the Commissioner. [Connecticut Trading Agreement and Order #8249]

*iii. Pollutants or Process Parameters: SO<sub>x</sub>*

- a. The permittee shall obtain and maintain at the premises, fuel receipts from the fuel supplier which certify that the oil meets the definition of distillate oil as defined in 40 CFR 60.41b. [CP/OP #075-0064; 40 CFR 60.49b(r)]
- b. Each fuel oil shipment for this equipment shall include a shipping receipt from the fuel supplier and a certification from the fuel supplier certifying the type of fuel in the shipment and the weight percent of sulfur in the fuel. [CP/OP #075-0064]
- c. The permittee shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for distillate oil and natural gas for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [CP/OP #075-0064; 40 CFR 60.49b(d)]
- d. The permittee shall keep records on the premise indicating continual compliance with all permit conditions at all times. Such data shall be maintained at the site for a minimum of five years, commencing from the date such records were created and made available upon request by the Commissioner. [CP/OP #075-0064; RCSA 22a-174-33(o)(2)]

*iv. Pollutants or Process Parameters: TSP*

- a. The permittee shall maintain monthly and annual actual TSP emissions. The monthly TSP emissions shall be calculated using emission factors obtained from the latest stack test or from the latest version of AP-42 and the fuel usage. Annual TSP emissions shall be calculated each calendar month by adding the current calendar month's TSP emissions to those of the previous eleven months. [RCSA 22a-174-4(d)(1)]

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- iv. *Pollutants or Process Parameters: VOC*
  - a. The permittee shall maintain monthly and annual actual VOC emissions. The monthly VOC emissions shall be calculated using emission factors obtained from the latest stack test or from the latest version of AP-42 and the fuel usage. Annual VOC emissions shall be calculated each calendar month by adding the current calendar month's VOC emissions to those of the previous eleven months. [CP/OP #075-0064]
- v. *Pollutants or Process Parameters: CO*
  - a. The permittee shall maintain monthly and annual actual CO emissions. The monthly CO emissions shall be calculated using emission factors obtained from the latest stack test or from the latest version of AP-42 and the fuel usage. Annual CO emissions shall be calculated each calendar month by adding the current calendar month's CO emissions to those of the previous eleven months. [CP/OP #075-0064]
- vi. *Pollutants or Process Parameters: Pb*
  - a. The permittee shall maintain monthly and annual actual Pb emissions. The monthly Pb emissions shall be calculated using emission factors obtained from the latest stack test or from the latest version of AP-42 and the fuel usage. Annual Pb emissions shall be calculated each calendar month by adding the current calendar month's Pb emissions to those of the previous eleven months. [CP/OP #075-0064]
- vii. *Pollutants or Process Parameters: H<sub>2</sub>SO<sub>4</sub>*
  - a. The permittee shall maintain monthly and annual actual H<sub>2</sub>SO<sub>4</sub> emissions. The monthly H<sub>2</sub>SO<sub>4</sub> emissions shall be calculated using emission factors obtained from the latest stack test or from the latest version of AP-42 and the fuel usage. Annual H<sub>2</sub>SO<sub>4</sub> emissions shall be calculated each calendar month by adding the current calendar month's H<sub>2</sub>SO<sub>4</sub> emissions to those of the previous eleven months. [CP/OP #075-0064]
- viii. *Pollutants or Process Parameters: Opacity*
  - a. The permittee shall maintain records of opacity. [40 CFR 60.49b(f)]
- ix. *Pollutants or Process Parameters: Fuel Consumption, Maximum Rated Capacity*
  - a. Documentation of fuel firing rate and maximum rated capacity shall be made by the permittee daily. [CP/OP #075-0064]
- x. *General Record Keeping Requirements*
  - a. All records shall be maintained on the premises for a period of five (5) years from the date such data and information were obtained. Such records and reports shall be available for inspection at reasonable hours by the Commissioner or the Administrator. [RCSA 22a-174-33(o)(2); CP/OP #075-0064]

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- b. The permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this permit recorded in a permanent form suitable for inspection. The file shall be retained for at least five years following the date of such measurements, maintenance, reports, and records, except as follows: [CP/OP #075-0064; 40 CFR 60.7(f)]
  - 1. For an automated CEMS where the calculated data averages do not exclude periods of CEMS breakdown or malfunction. An automated CEMS records and reduces the measured data to the form of the pollutant emission standard through the use of a computerized data acquisition system. In lieu of maintaining a file of all CEMS sub-hourly measurements as required under 40 CFR 60.7(f), the permittee shall retain the most recent consecutive three averaging periods of sub-hourly measurements and a file that contains a hard copy of the data acquisition system algorithm used to reduce the measured data into the reportable form of the standard.
  - 2. For a CEMS where the measured data is manually reduced to obtain the reportable form of the standard, and where the calculated data averages do not exclude periods of CEMS breakdown or malfunction. In lieu of maintaining a file of all CEMS sub-hourly measurements as required under 40 CFR 60.7(f), the permittee shall retain all sub-hourly measurements for the most recent reporting period. The sub-hourly measurements shall be retained for 120 days from the date of the most recent summary or excess emission report submitted to the Commissioner and the Administrator.
  - 3. The Commissioner and/or the Administrator, upon notification to the permittee, may require the permittee to maintain all measurements as required by 40 CFR 60.7(f), if the Commissioner and/or the Administrator determines these records are required to more accurately assess the compliance status of the turbine and/or the in-line duct burner.
- b. The permittee shall keep records of the dates, times, and places of all emission testing done on this unit, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [RCSA 22a-174-4(d)(1); RCSA 22a-174-22(l)(1)(H)]

### 3. Reporting Requirements

#### i. *Pollutants or Process Parameters: NO<sub>x</sub>*

- a. The permittee shall, on a daily basis review data recorded and calculated for that day and report to the Commissioner, within three (3) working days, any exceedances of an emission limit. [CP/OP #075-0064]
- b. The permittee shall submit to the Commissioner and the Administrator a notification of any physical or operational change to EMU 1 and/or EMU 2 which may increase the emission rate of NO<sub>x</sub> unless that change is specifically exempted under an applicable subpart or in Sec. 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing

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the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Commissioner and the Administrator may request additional relevant information subsequent to this notice. [CP/OP #075-0064; 40 CFR 60.7(a)(4)]

- c. The permittee shall submit reports of excess emissions and monitoring downtime, in accordance with 40 CFR 60.7(c) and 60.334(j)(1)(iii). [40 CFR 60.7(c); 60.334(j)(1)(iii)]
- d. If there are no excess emissions during the calendar quarter, the permittee shall submit to the Commissioner and the Administrator, a report semiannually stating that no excess emissions occurred during the semiannual reporting period. [40 CFR 60.49b(h)]
- e. The permittee shall notify the Commissioner in writing at least thirty (30) days prior to conducting any performance or quality assurance testing the NO<sub>x</sub> CEM. [RCSA 22a-174-22(k)(3)]
- f. Within sixty (60) days of the completion of certification tests conducted on the CEM, the permittee shall submit a written report of the results of such testing to the Commissioner and the Administrator. [RCSA 22a-174-22(l)(3); 40 CFR 60.49b(b)]
- g. The permittee shall provide the records to the Commissioner within thirty days of receipt of a written request from the Commissioner or such sooner time as the Commissioner may require. [RCSA 22a-174-4(d)(1)]
- h. The permittee shall provide to the Commissioner and the Administrator, reports specified in the CT DEP CEM Guideline dated 8/19/96 on a quarterly basis. The report shall be submitted, by the permittee, by the 30<sup>th</sup> day following the end of the calendar quarter. [CP/OP #075-0064; 40 CFR 60.49b(j)]

### ii. *Pollutants or Process Parameters: NO<sub>x</sub> DERCs Requirements*

- a. No later than July 30 of every year after issuance of this permit, the permittee shall submit in writing to the Commissioner the non-ozone season fuel consumption and amount of all DERCs used (including serial numbers (if assigned) and approved DERCs purchased from other facilities) for EMU 1 during the previous October through April time period. These reports shall be on a form prescribed by the Commissioner. [Connecticut Trading Agreement and Order #8249]
- b. Until the permittee has fully complied with this permit and the Trading Agreement and Order #8249, the permittee shall notify the Commissioner in writing no later than 15 days after transferring all or any portion of the facility, the operations, the site or the business which is the subject of this permit or after obtaining a new mailing or location address. The permittee's obligations under this permit shall not be affected by the passage of title to any property to any other person or municipality. [Connecticut Trading Agreement and Order #8249]
- c. In the event that the permittee becomes aware that it did not or may not comply, or did not or may not comply on time, with any requirement of this permit and the Trading Agreement and Order #8249 or of any document required hereunder, the permittee shall immediately notify the Department by telephone and shall take all reasonable steps to ensure that any noncompliance or delay is avoided or, if unavoidable, is minimized to the greatest extent possible. Within five (5) days of the initial notice, the permittee shall submit in writing the date, time, and duration of the noncompliance and the reasons for the noncompliance or delay and propose, for the

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review and written approval of the Commissioner, dates by which compliance will be achieved, and the permittee shall comply with any dates which may be approved in writing by the Commissioner. Notification by the permittee shall not excuse noncompliance or delay, and the Commissioner's approval of any compliance dates proposed shall not excuse noncompliance or delay unless specifically so stated by the Commissioner in writing. [Connecticut Trading Agreement and Order #8249]

### *ii. Pollutants or Process Parameters: SO<sub>x</sub>*

- a. On a daily basis, the permittee shall review data recorded and calculated for that day and report to the Commissioner and Administrator within three (3) working days any exceedances of an emission limit. [CP/OP #075-0064; 40 CFR 60.49b(h)]
- b. The permittee shall submit to the Commissioner and the Administrator a notification of any physical or operational change to EMU 1 and/or EMU 2 which may increase the emission rate of SO<sub>x</sub>, unless that change is specifically exempted under an applicable subpart or in Sec. 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Commissioner and the Administrator may request additional relevant information subsequent to this notice. [CP/OP #075-0064; 40 CFR 60.7(a)(4)]
- c. Continuous monitored parameters or emissions shall be subject to excess emissions reporting, in accordance with 40 CFR 60.334(j)(2).
- d. If there are no excess emissions during the calendar quarter, the permittee shall submit to the Commissioner and the Administrator, a report semiannually stating that no excess emissions occurred during the semiannual reporting period. [40 CFR 60.49b(h)]
- e. The permittee shall provide records to the Commissioner within thirty days of receipt of a written request from the Commissioner or such sooner time as the Commissioner may require. [RCSA 22a-174-4(d)(1)]

### *iii. Pollutants or Process Parameters: TSP*

- a. On a daily basis, the permittee shall review data recorded and calculated for that day and report to the Commissioner within three (3) working days any exceedances of an emission limit. [CP/OP #075-0064]
- b. The permittee shall submit to the Commissioner and the Administrator a notification of any physical or operational change to EMU 1 and/or EMU 2 which may increase the emission rate of particulate, unless that change is specifically exempted under an applicable subpart or in Sec. 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Commissioner and the Administrator may request additional relevant information subsequent to this notice. [CP/OP #075-0064; 40 CFR 60.7(a)(4)]

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- c. The permittee shall provide records to the Commissioner within thirty days of receipt of a written request from the Commissioner or such sooner time as the Commissioner may require. [RCSA 22a-174-4(d)(1)]
- iv. *Pollutants or Process Parameters: VOC*
  - a. On a daily basis, the permittee shall review data recorded and calculated for that day and report to the Commissioner within three (3) working days any exceedances of an emission limit. [CP/OP #075-0064]
  - b. The permittee shall provide records to the Commissioner within thirty days of receipt of a written request from the Commissioner or such sooner time as the Commissioner may require. [RCSA 22a-174-4(d)(1)]
- v. *Pollutants or Process Parameters: CO*
  - a. On a daily basis, the permittee shall review data recorded and calculated for that day and report to the Commissioner within three (3) working days any exceedances of an emission limit. [CP/OP #075-0064]
  - b. The permittee shall provide records to the Commissioner within thirty days of receipt of a written request from the Commissioner or such sooner time as the Commissioner may require. [RCSA 22a-174-4(d)(1)]
- vi. *Pollutants or Process Parameters: Pb*
  - a. On a daily basis, the permittee shall review data recorded and calculated for that day and report to the Commissioner within three (3) working days any exceedances of an emission limit. [CP/OP #075-0064]
  - b. The permittee shall provide records to the Commissioner within thirty days of receipt of a written request from the Commissioner or such sooner time as the Commissioner may require. [RCSA 22a-174-4(d)(1)]
- vii. *Pollutants or Process Parameters: H<sub>2</sub>SO<sub>4</sub>*
  - a. On a daily basis, the permittee shall review data recorded and calculated for that day and report to the Commissioner within three (3) working days any exceedances of an emission limit. [CP/OP #075-0064]
  - b. The permittee shall provide records to the Commissioner within thirty days of receipt of a written request from the Commissioner or such sooner time as the Commissioner may require. [RCSA 22a-174-4(d)(1)]
- viii. *Pollutants or Process Parameters: Opacity*
  - a. On a daily basis, the permittee shall review data recorded and calculated for that day and report to the Commissioner and the Administrator within three (3) working days any exceedances of an emission limit. [CP/OP #075-0064; 40 CFR 60.49b(h)]
  - b. If there are no excess emissions during the calendar quarter, the permittee shall submit to the Commissioner and the Administrator, a report semiannually stating that no excess emissions occurred during the semiannual reporting period. [40 CFR 60.49b(h)]

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- c. The permittee shall provide to the Commissioner and the Administrator, reports specified in the CT DEP CEM Guideline dated 8/19/96 on a quarterly basis. The report shall be submitted by the 30<sup>th</sup> day following the end of the calendar quarter. [CP/OP #075-0064; 40 CFR 60.49b(b)]
    - d. The permittee shall provide records to the Commissioner within thirty days of receipt of a written request from the Commissioner or such sooner time as the Commissioner may require. [RCSA 22a-174-4(d)(1)]
  - ix. *Pollutants or Process Parameters: Fuel Consumption, Maximum Rated Capacity*
    - a. The permittee shall review recorded data daily and report to the Commissioner within three (3) working days any exceedances of an allowable limit. [CP/OP #075-0064]
    - b. The permittee shall provide written monitoring reports to the Commissioner by the 30<sup>th</sup> day following the end of each semi-annual period in accordance with Section IX.F.
    - c. The permittee shall provide records to the Commissioner within thirty days of receipt of a written request from the Commissioner or such sooner time as the Commissioner may require. [RCSA 22a-174-4(d)(1)]
  - x. *General Reporting Requirements*
    - a. The permittee shall submit to the Commissioner and the Administrator, written quarterly reports of excess emissions and CEM malfunctions. Such reports shall be submitted to the Commissioner and the Administrator on or before January 30, April 30, July 30, and October 30 and shall include data for the three calendar month period ending the month before the due date of the report. For each period of excess emissions, such report shall include the date and time of commencement and completion of such period, the magnitude and suspected cause of the excess emissions and all actions taken to correct the excess emissions. For each malfunction of the CEM system, such report shall include the date and time of when the malfunction commenced and ended, and all actions taken to correct the malfunction. [RCSA 22a-174-4(d)(1); RCSA 22a-174-22(l)(1)(C)]
- B. EMISSION UNIT 3 (EMU 3)**
- 1. Monitoring and Testing Requirements**
- i. *Pollutants or Process Parameters: NO<sub>x</sub>*
    - a. The permittee shall install, calibrate, maintain, operate, and certify a continuous emissions monitor (CEM) for NO<sub>x</sub>. [CP/OP #075-0065; RCSA 22a-174-22(k)(3)]
    - b. The CEM shall be installed, calibrated, operated and tested in accordance with CT DEP Continuous Emission Monitoring Guideline (dated August 19, 1996), RCSA 22a-174-22a(i), and with the requirements specified in 40 CFR 60 Subpart A, Appendix B and Appendix F, as may be amended from time to time. [CP/OP # 075-0065]
    - c. The performance or quality assurance testing of the CEM shall be conducted in accordance with a testing protocol approved by the Commissioner. [RCSA 22a-174-22(k)(3)]
    - d. The permittee shall use data recorded by the CEM and any other records and reports to determine compliance with NO<sub>x</sub> emissions. [CP/OP #075-0065; RCSA 22a-174-22(l)(7)]



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- e. The averaging times for the emission limitations with the use of the CEM shall be one (1) hour block. This shall include all periods of operation, including startup, shutdown, and malfunction. Start-up, shutdown or malfunction periods shall not exceed 180 minutes. [RCSA 22a-174-22(k)(4)]
  - f. The NO<sub>x</sub> emissions shall be controlled with low NO<sub>x</sub> burners and efficient combustion controls. [CP/OP #075-0065]
  - g. Annual emissions shall be verified by adding the current month's emissions to the previous eleven months' emissions. [RCSA 22a-174-33(j)(1)(K)(ii)]
  - h. The permittee shall comply with RCSA 22a-174-22 in accordance with the submitted and approved compliance plan to the Department. [RCSA 22a-174-22(m)]
  - i. If required by the Commissioner, the permittee shall measure NO<sub>x</sub> emissions using EPA Method 7 stack test. [RCSA 22a-174-5(e)(2)]
- ii. *Pollutants or Process Parameters: SO<sub>x</sub>*
- a. In lieu of a CEMS for SO<sub>2</sub>, the permittee shall obtain fuel receipts as described in 40 CFR 60.49b(r) and certify that only very low sulfur oil, as defined in 40 CFR 60.41b, was combusted during each reporting period. [CP/OP 075-0065; 40 CFR 60.47b(a) & (f)]
  - b. Annual emissions shall be verified by the permittee, by adding the current month's emissions to the previous eleven months' emissions. [RCSA 22a-174-33(j)(1)(K)(ii)]
  - c. If required by the Commissioner, the permittee shall measure SO<sub>x</sub> emissions using EPA Method 6 stack test. [RCSA 22a-174-5(e)(2)]
- iii. *Pollutants or Process Parameters: TSP*
- a. The permittee shall verify emissions using the most recent performance test data and daily parametric monitoring and engineering calculations. [RCSA 22a-174-33(j)(1)(K)(ii)]
  - b. Annual emissions shall be verified by the permittee, by adding the current month's emissions to the previous eleven months' emissions. [RCSA 22a-174-33(j)(1)(K)(ii)]
  - c. If required by the Commissioner, the permittee shall measure TSP emissions using EPA Method 5 stack test. [RCSA 22a-174-5(e)(2)]
- iv. *Pollutants or Process Parameters: VOC*
- a. The permittee shall verify emissions using the most recent performance test data and daily parametric monitoring and engineering calculations. [RCSA 22a-174-33(j)(1)(K)(ii)]
  - b. Annual emissions shall be verified by the permittee, by adding the current month's emissions to the previous eleven months' emissions. [RCSA 22a-174-33(j)(1)(K)(ii)]
  - c. If required by the Commissioner, the permittee shall measure VOC emissions using EPA Method 25 stack test. [RCSA 22a-174-5(e)(2)]

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v. *Pollutants or Process Parameters: CO*

- a. The permittee shall verify emissions using the most recent performance test data and daily parametric monitoring and engineering calculations. [RCSA 22a-174-33(j)(1)(K)(ii)]
- b. Annual emissions shall be verified by the permittee, by adding the current month's emissions to the previous eleven months' emissions. [RCSA 22a-174-33(j)(1)(K)(ii)]
- c. If required by the Commissioner, the permittee shall measure CO emissions using EPA Method 10 stack test. [RCSA 22a-174-5(e)(2)]

vi. *Pollutants or Process Parameters: Pb*

- a. The permittee shall verify emissions using the most recent performance test data and daily parametric monitoring and engineering calculations. [RCSA 22a-174-33(j)(1)(K)(ii)]
- b. Annual emissions shall be verified by the permittee, by adding the current month's emissions to the previous eleven months' emissions. [RCSA 22a-174-33(j)(1)(K)(ii)]
- c. If required by the Commissioner, the permittee shall measure Pb emissions using EPA Method 12 stack test. [RCSA 22a-174-5(e)(2)]

vii. *Pollutants or Process Parameters: H<sub>2</sub>SO<sub>4</sub>*

- a. The permittee shall verify emissions using the most recent performance test data and daily parametric monitoring and engineering calculations. [RCSA 22a-174-33(j)(1)(K)(ii)]
- b. Annual emissions shall be verified by the permittee, by adding the current month's emissions to the previous eleven months' emissions. [RCSA 22a-174-33(j)(1)(K)(ii)]
- c. If required by the Commissioner, the permittee shall measure H<sub>2</sub>SO<sub>4</sub> emissions using EPA Method 8 stack test. [RCSA 22a-174-5(e)(2)]

viii. *Pollutants or Process Parameters: Opacity*

- a. The CEM equipment shall be installed, calibrated, operated and tested in accordance with CP/OP # 075-0065.
- b. Opacity shall be verified by the permittee, by using CEM data based on a 6-minute block average. [CP/OP #075-0065]
- c. The unit shall be shut down by the permittee, when 5 consecutive 6-minute block averages exceed 40%. [CP/OP #075-0065]
- d. If required by the Commissioner, the permittee shall measure opacity using EPA Method 9 stack test. [RCSA 22a-174-5(e)(2)]

ix. *Pollutants or Process Parameters: Fuel Consumption, Maximum Rated Capacity*

- a. The permittee shall keep monthly and annual fuel consumption. [RCSA 22a-174-33(j)(1)(K)(ii)]

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### 2. Record Keeping Requirements

#### *i. Pollutants or Process Parameters: NO<sub>x</sub>*

- a. The permittee shall keep records of all tune-ups, repairs, replacement of parts and other maintenance done on the unit. [RCSA 22a-174-22(l)(1)(D)]
- b. The permittee shall keep copies of all documents submitted to the Commissioner pursuant to RCSA 22a-174-22. [RCSA 22a-174-22(l)(1)(E)]
- c. The permittee shall keep all charts, electronically stored data, and printed records produced by the NO<sub>x</sub> continuous emissions monitor. [RCSA 22a-174-22(l)(1)(F)]
- d. The permittee shall keep procedures for calculating NO<sub>x</sub> emission rates. [RCSA 22a-174-22(l)(1)(G)]
- e. The permittee shall keep records of all performance evaluations, calibration checks and adjustments on CEM; a record of maintenance procedures; and all data necessary to complete the quarterly reports required by the Department. [RCSA 22a-174-22(l)(1)(I)]
- f. Within sixty (60) days of the completion of certification tests conducted on the CEM, the permittee shall submit a written report of the results of such testing to the Commissioner and the Administrator. [RCSA 22a-174-22(l)(3); 40 CFR 60.49b(b)]
- g. The permittee shall maintain reports of all monitoring and test data in accordance with RCSA 22a-174-4(d).

#### *ii. Pollutants or Process Parameters: SO<sub>x</sub>*

- a. The permittee shall maintain all recorded data required by this permit at the site for a minimum of five years, commencing from the date such records were created and made available upon request by the Department. [CP/OP #075-0065; RCSA 22a-174-33(o)(2)]

#### *iii. Pollutants or Process Parameters: TSP*

- a. The permittee shall maintain monthly and annual actual TSP emissions. The monthly TSP emissions shall be calculated using emission factors obtained from the latest stack test or from the latest version of AP-42 and the fuel usage. Annual TSP emissions shall be calculated each calendar month by adding the current calendar month's TSP emissions to those of the previous eleven months. [RCSA 22a-174-4(d)(1)]

#### *iv. Pollutants or Process Parameters: VOC*

- a. The permittee shall maintain monthly and annual actual VOC emissions. The monthly VOC emissions shall be calculated using emission factors obtained from the latest stack test or from the latest version of AP-42 and the fuel usage. Annual VOC emissions shall be calculated each calendar month by adding the current calendar month's VOC emissions to those of the previous eleven months. [CP/OP #075-0065]

#### *v. Pollutants or Process Parameters: CO*

- a. The permittee shall maintain monthly and annual actual CO emissions. The monthly CO emissions shall be calculated using emission factors obtained from the latest stack

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test or from the latest version of AP-42 and the fuel usage. Annual CO emissions shall be calculated each calendar month by adding the current calendar month's CO emissions to those of the previous eleven months. [CP/OP #075-0065]

vi. *Pollutants or Process Parameters: Pb*

- a. The permittee shall maintain monthly and annual actual Pb emissions. The monthly Pb emissions shall be calculated using emission factors obtained from the latest stack test or from the latest version of AP-42 and the fuel usage. Annual Pb emissions shall be calculated each calendar month by adding the current calendar month's Pb emissions to those of the previous eleven months. [CP/OP #075-0065]

vii. *Pollutants or Process Parameters: H<sub>2</sub>SO<sub>4</sub>*

- a. The permittee shall maintain monthly and annual actual H<sub>2</sub>SO<sub>4</sub> emissions. The monthly H<sub>2</sub>SO<sub>4</sub> emissions shall be calculated using emission factors obtained from the latest stack test or from the latest version of AP-42 and the fuel usage. Annual H<sub>2</sub>SO<sub>4</sub> emissions shall be calculated each calendar month by adding the current calendar month's H<sub>2</sub>SO<sub>4</sub> emissions to those of the previous eleven months. [CP/OP #075-0065]

viii. *Pollutants or Process Parameters: Opacity*

- a. The permittee shall keep all charts, electronically stored data, and printed records produced by the smoke and opacity continuous emissions monitor. [RCSA 22a-174-4(d)(1)]

ix. *Pollutants or Process Parameters: Fuel Consumption, Maximum Rated Capacity*

- a. Documentation of fuel firing rate and maximum rated capacity shall be made by the permittee daily. [CP/OP #075-0065]

x. *General Record Keeping Requirements*

- a. All records shall be maintained on the premises for a period of five (5) years from the date such data and information were obtained. Such records and reports shall be available for inspection at reasonable hours by the Commissioner or the Administrator. [RCSA 22a-174-33(o)(2); CP/OP #075-0065]
- b. The permittee shall keep records of the dates, times, and places of all emission testing done on this unit, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [RCSA 22a-174-4(d)(1); RCSA 22a-174-22(l)(1)(H)]

### 3. Reporting Requirements

i. *Pollutants or Process Parameters: NO<sub>x</sub>*

- a. The permittee shall, on a daily basis, review data recorded and calculated for that day and report to the Commissioner, within three (3) working days, any exceedances of an emission limit. [CP/OP #075-0065]

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- b. If there are no excess emissions during the calendar quarter, the permittee shall submit to the Commissioner and the Administrator, a report semiannually stating that no excess emissions occurred during the semiannual reporting period. [40 CFR 60.49b(h)]
  - c. The permittee shall notify the Commissioner in writing at least thirty (30) days prior to conducting any performance or quality assurance testing the NO<sub>x</sub> CEM. [RCSA 22a-174-22(k)(3)]
  - d. Within sixty (60) days of the completion of certification tests conducted on the CEM, the permittee shall submit a written report of the results of such testing to the Commissioner and the Administrator. [RCSA 22a-174-22(l)(3); 40 CFR 60.49b(b)]
  - e. The permittee shall provide the records to the Commissioner within thirty days of receipt of a written request from the Commissioner or such sooner time as the Commissioner may require. [RCSA 22a-174-4(d)(1)]
  - f. The permittee shall provide to the Commissioner and the Administrator, reports specified in the CT DEP CEM Guideline dated 8/19/96 on a quarterly basis. The report shall be submitted, by the permittee, by the 30<sup>th</sup> day following the end of the calendar quarter. [CP/OP #075-0064; 40 CFR 60.49b(j)]
- ii. *Pollutants or Process Parameters: SO<sub>x</sub>*
- a. On a daily basis, the permittee shall review data recorded and calculated for that day and report to the Commissioner and the Administrator within three (3) working days any exceedances of an emission limit. [CP/OP #075-0065; 40 CFR 60.49b(h)]
  - b. If there are no excess emissions during the calendar quarter, the permittee shall submit to the Commissioner and the Administrator, a report semiannually stating that no excess emissions occurred during the semiannual reporting period. [40 CFR 60.49b(h)]
  - c. The permittee shall provide records to the Commissioner within thirty days of receipt of a written request from the Commissioner or such sooner time as the Commissioner may require. [RCSA 22a-174-4(d)(1)]
- iii. *Pollutants or Process Parameters: TSP*
- a. On a daily basis, the permittee shall review data recorded and calculated for that day and report to the Commissioner within three (3) working days any exceedances of an emission limit. [CP/OP #075-0065]
  - b. The permittee shall provide records to the Commissioner within thirty days of receipt of a written request from the Commissioner or such sooner time as the Commissioner may require. [RCSA 22a-174-4(d)(1)]
- iv. *Pollutants or Process Parameters: VOC*
- a. On a daily basis, the permittee shall review data recorded and calculated for that day and report to the Commissioner within three (3) working days any exceedances of an emission limit. [CP/OP #075-0065]
  - b. The permittee shall provide records to the Commissioner within thirty days of receipt of a written request from the Commissioner or such sooner time as the Commissioner may require. [RCSA 22a-174-4(d)(1)]

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v. *Pollutants or Process Parameters: CO*

- a. On a daily basis, the permittee shall review data recorded and calculated for that day and report to the Commissioner within three (3) working days any exceedances of an emission limit. [CP/OP #075-0065]
- b. The permittee shall provide records to the Commissioner within thirty days of receipt of a written request from the Commissioner or such sooner time as the Commissioner may require. [RCSA 22a-174-4(d)(1)]

vi. *Pollutants or Process Parameters: Pb*

- a. On a daily basis, the permittee shall review data recorded and calculated for that day and report to the Commissioner within three (3) working days any exceedances of an emission limit. [CP/OP #075-0065]
- b. The permittee shall provide records to the Commissioner within thirty days of receipt of a written request from the Commissioner or such sooner time as the Commissioner may require. [RCSA 22a-174-4(d)(1)]

vii. *Pollutants or Process Parameters: H<sub>2</sub>SO<sub>4</sub>*

- a. On a daily basis, the permittee shall review data recorded and calculated for that day and report to the Commissioner within three (3) working days any exceedances of an emission limit. [CP/OP #075-0064]
- b. The permittee shall provide records to the Commissioner within thirty days of receipt of a written request from the Commissioner or such sooner time as the Commissioner may require. [RCSA 22a-174-4(d)(1)]

viii. *Pollutants or Process Parameters: Opacity*

- a. On a daily basis, the permittee shall review data recorded and calculated for that day and report to the Commissioner and the Administration within three (3) working days any exceedances of an emission limit. [CP/OP #075-0064; 40 CFR 60.49b(h)]
- b. If there are no excess emissions during the calendar quarter, the permittee shall submit to the Commissioner and the Administrator, a report semiannually stating that no excess emissions occurred during the semiannual reporting period. [40 CFR 60.49b(h)]
- c. The permittee shall provide to the Commissioner and the Administrator, reports specified in the CT DEP CEM Guideline dated 8/19/96 on a quarterly basis. The report shall be submitted by the 30<sup>th</sup> day following the end of the calendar quarter. [CP/OP #075-0064; 40 CFR 60.49b(b)]
- d. The permittee shall provide records to the Commissioner within thirty days of receipt of a written request from the Commissioner or such sooner time as the Commissioner may require. [RCSA 22a-174-4(d)(1)]

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*ix. Pollutants or Process Parameters: Fuel Consumption, Maximum Rated Capacity*

- a. The permittee shall review recorded data daily and report to the Commissioner within three (3) working days any exceedances of an allowable limit. [CP/OP #075-0064]
- b. The permittee shall provide written monitoring reports to the Commissioner by the 30<sup>th</sup> day following the end of each semi-annual period in accordance with Section IX.F.
- c. The permittee shall provide records to the Commissioner within thirty days of receipt of a written request from the Commissioner or such sooner time as the Commissioner may require. [RCSA 22a-174-4(d)(1)]

*x. General Reporting Requirements*

- a. The permittee shall submit to the Commissioner and the Administrator, written quarterly reports of excess emissions and CEM malfunctions. Such reports shall be submitted to the Commissioner and the Administrator on or before January 30, April 30, July 30, and October 30 and shall include data for the three calendar month period ending the month before the due date of the report. For each period of excess emissions, such report shall include the date and time of commencement and completion of such period, the magnitude and suspected cause of the excess emissions and all actions taken to correct the excess emissions. For each malfunction of the CEM system, such report shall include the date and time of when the malfunction commenced and ended, and all actions taken to correct the malfunction. [RCSA 22a-174-4(d)(1); RCSA 22a-174-22(l)(1)(C)]

### C. EMISSION UNIT 4

#### 1. Monitoring and Testing Requirements

*i. Pollutants or Process Parameters: NOx*

- a. The unit shall not be operated for routine, scheduled testing or maintenance on any day for which the Commissioner has forecast that ozone levels will be "moderate to unhealthful," "unhealthful," or "very unhealthful". [RCSA 22a-174-22(b)(5)]
- b. This unit shall be dedicated solely to starting the General Electric gas turbine, Model No. PG6531. These situations are defined as: [CP/OP #075-0150]
  1. Startup of turbine. The engine is run at low speed for approximately five (5) minutes to warm up the engine. The engine is then ramped up to full speed over the period of five (5) minutes, then held at maximum speed for an additional five (5) minutes. This allows the turbine to reach self-sustaining speed, at which point the startup engine is shut off. Total operation time is approximately 20 to 30 minutes per startup.
  2. Cool down of turbine blades. During the shutdown process, the engine is used to rotate the turbine blades without combustion occurring in the turbine. This operation lasts approximately two (2) hours.
  3. Washing of turbine blades. The engine, operating at low speed, rotates the blades while a cleaning solution is sprayed onto the blades. This operation usually lasts about an hour and a half.

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4. Engine testing. If the engine appears to be malfunctioning during any of the above operations, the engine may be tested for a short period (about two minutes) to check for irregularities.
  - c. The source cannot emit continuously for a period of more than six (6) hours. [CP/OP #075-0150]
- ii. *Pollutants or Process Parameters: SO<sub>x</sub>*
- a. The permittee shall calculate monthly and annual actual SO<sub>x</sub> emissions. The monthly SO<sub>x</sub> emissions shall be calculated using emission factors obtained from the latest stack test or from the latest version of AP-42 and the fuel usage. Annual SO<sub>x</sub> emissions shall be calculated each calendar month by adding the current calendar month's SO<sub>x</sub> emissions to those of the previous eleven months. [RCSA 22a-174-4(d)(1)]
- iii. *Pollutants or Process Parameters: TSP*
- a. The permittee shall calculate monthly and annual actual TSP emissions. The monthly TSP emissions shall be calculated using emission factors obtained from the latest stack test or from the latest version of AP-42 and the fuel usage. Annual TSP emissions shall be calculated each calendar month by adding the current calendar month's TSP emissions to those of the previous eleven months. [RCSA 22a-174-4(d)(1)]
- iv. *Pollutants or Process Parameters: VOC*
- a. The permittee shall calculate monthly and annual actual VOC emissions. The monthly VOC emissions shall be calculated using emission factors obtained from the latest stack test or from the latest version of AP-42 and the fuel usage. Annual VOC emissions shall be calculated each calendar month by adding the current calendar month's VOC emissions to those of the previous eleven months. [RCSA 22a-174-4(d)(1)]
- v. *Pollutants or Process Parameters: CO*
- a. The permittee shall calculate monthly and annual actual CO emissions. The monthly CO emissions shall be calculated using emission factors obtained from the latest stack test or from the latest version of AP-42 and the fuel usage. Annual CO emissions shall be calculated each calendar month by adding the current calendar month's CO emissions to those of the previous eleven months. [RCSA 22a-174-4(d)(1)]
- vi. *Pollutants or Process Parameters: Fuel Consumption*
- a. Each oil fuel shipment for this unit shall include a shipping receipt from the fuel supplier and a certification from the fuel supplier certifying the type of fuel in the shipment and the weight percent of sulfur in the fuel. The shipping receipt and/or certification shall include the name of the oil supplier, the sulfur content of the oil and the method used to determine the sulfur content of the oil. Each shipping receipt and certification shall be kept on site and available for inspection by the Bureau upon request. [CP/OP #075-0150]



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- b. Annual operating hours and fuel consumption shall be based on any consecutive twelve (12) month time period and shall be determined by adding (for each fuel) the current month's fuel usage and operating hours to that of the previous eleven (11) months. These calculations shall be made on a monthly basis and made available for inspection by this Bureau upon request. [CP/OP #075-0150]
- c. When more than one fuel supply tank is to service this source or when multiple sources are supplied by one fuel tank, a fuel metering device shall be used to continuously monitor fuel feed to this permitted source. [CP/OP #075-0150]

### 2. Record Keeping Requirements

#### *i. Pollutants or Process Parameters: NO<sub>x</sub>*

- a. The permittee shall keep daily records of operating hours of the unit, identifying the operating hours of emergency and non-emergency use. [RCSA 22a-174-22(l)(1)(A)]
- b. The permittee shall maintain monthly and annual actual NO<sub>x</sub> emissions. [RCSA 22a-174-4(d)(1)]
- c. The permittee shall keep records of all tune-ups, repairs, replacement of parts and other maintenance. [RCSA 22a-174-22(l)(1)(D)]
- d. The permittee shall keep the procedures for calculating NO<sub>x</sub> emission rates. [RCSA 22a-174-22(l)(1)(G)]
- e. The permittee shall retain all records and reports for five (5) years. Such records and reports shall be available for inspection at reasonable hours by the Commissioner or the Administrator. Such records and reports shall be retained at the source, unless the Commissioner approves in writing the use of another location in the State. [RCSA 22a-174-22(l)(5)]

#### *ii. Pollutants or Process Parameters: SO<sub>x</sub>*

- a. The permittee shall maintain monthly and annual actual SO<sub>x</sub> emissions. [RCSA 22a-174-4(d)(1)]

#### *iii. Pollutants or Process Parameters: TSP*

- a. The permittee shall maintain monthly and annual actual TSP emissions. [RCSA 22a-174-4(d)(1)]

#### *iv. Pollutants or Process Parameters: VOC*

- a. The permittee shall maintain monthly and annual actual VOC emissions. [RCSA 22a-174-4(d)(1)]

#### *v. Pollutants or Process Parameters: CO*

- a. The permittee shall maintain monthly and annual actual CO emissions. [RCSA 22a-174-4(d)(1)]

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vi. *Pollutants or Process Parameters: Fuel Consumption*

- a. The calculations of the annual operating hours and fuel consumption shall be made on a monthly basis and made available for inspection by this Bureau upon request. [CP/OP #075-0150]

### 3. Reporting Requirements

i. *Pollutants or Process Parameters: NO<sub>x</sub>*

- a. On or before April 15 of each year, the permittee shall submit a report on NO<sub>x</sub> emissions from such source, in its annual Emission Statement.

ii. *Pollutants or Process Parameters: SO<sub>x</sub>*

- a. The permittee shall provide all records to the Commissioner within thirty (30) days of receipt of a written request from the Commissioner. [RCSA 22a-174-4(d)(1)]

iii. *Pollutants or Process Parameters: TSP*

- a. The permittee shall provide all records to the Commissioner within thirty (30) days of receipt of a written request from the Commissioner. [RCSA 22a-174-4(d)(1)]

v. *Pollutants or Process Parameters: VOC*

- a. The permittee shall provide all records to the Commissioner within thirty (30) days of receipt of a written request from the Commissioner. [RCSA 22a-174-4(d)(1)]

v. *Pollutants or Process Parameters: CO*

- a. The permittee shall provide all records to the Commissioner within thirty (30) days of receipt of a written request from the Commissioner. [RCSA 22a-174-4(d)(1)]

vi. *Pollutants or Process Parameters: Fuel Consumption*

- a. The permittee shall provide all records to the Commissioner within thirty (30) days of receipt of a written request from the Commissioner. [RCSA 22a-174-4(d)(1)]

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### D. EMISSION UNIT 12 (EMU 12)

#### 1. Monitoring and Testing Requirements

- i.* The permittee shall maintain a monthly record of the amount of solvent added to the unit. [RCSA 22a-174-20(1)(3)(k)]

#### 2. Record Keeping Requirements

- i.* The permittee shall keep a monthly record of the amount of solvent added to the unit and keep such record for a minimum of five (5) years after such record is made. [RCSA 22a-174-20(1)(3)(k); RCSA 22a-174-33(o)(2)]

#### 3. Reporting Requirements

- i.* The permittee shall provide all records to the Commissioner within thirty (30) days of receipt of a written request from the Commissioner. [RCSA 22a-174-4(d)(1)]

#### 4. Operating and Maintenance Requirements

- i.* The permittee shall store waste degreasing solvent only in covered containers and not dispose of waste degreasing solvent or transfer it to another party, in a manner such that greater than 20 percent of the waste degreasing solvent (by weight) can evaporate into the atmosphere. [RCSA 22a-174-20(1)(3)(C)]
- ii.* The permittee shall close the cover whenever parts are not being handled in the cleaner for two (2) minutes or more, or when the device is not in use. [RCSA 22a-174-20(1)(3)(D)]
- iii.* The permittee shall drain the cleaned parts for at least 15 seconds or until dripping ceases, whichever is longer. [RCSA 22a-174-20(1)(3)(E)]
- iv.* If used, the permittee shall supply a degreasing solvent spray that is a solid fluid stream (not a fine, atomized or shower type spray) at a pressure which does not exceed ten (10) pounds per square inch as measured at the pump outlet and shall perform such spraying within the confines of the cold cleaning unit. [RCSA 22a-174-20(1)(3)(F)]
- v.* The permittee shall minimize the drafts across the top of each cold cleaning unit such that whenever the cover is open the unit is not exposed to drafts greater than 40 meters per minute, as measured between 1 and 2 meters upwind, and at the same elevation as the tank lip. [RCSA 22a-174-20(1)(3)(H)]
- vi.* The permittee shall not operate the unit upon the occurrence of any visible solvent leak until such leak is repaired. [RCSA 22a-174-20(1)(3)(I)]
- vii.* The permittee shall provide a permanent, conspicuous label on or posted near each unit summarizing the applicable operating requirements. [RCSA 22a-174-20(1)(3)(J)]

## Section V: Premises-Wide General Requirements

**Table V: PREMISES-WIDE GENERAL REQUIREMENTS**

Pollutants or Process Parameters	Applicable Regulatory References/Citations	Limitations or Restrictions
Opacity	RCSA 22a-174-18(b)(1) & (2)	<p>For stationary sources without opacity CEM requirement. Except as provided by RCSA 22a-174-18(j), the permittee shall not exceed the following visible emissions limits: [22a-174-18(b)(1)(A) &amp; (B)]</p> <p>(A) Twenty percent (20%) opacity during any six-minute block average as measured by 40 CFR 60, Appendix A, Reference method 9; or</p> <p>(B) Forty percent (40%) opacity s measured by 40 CFR 60, Appendix A, Reference method 9, reduced to a one-minute block average.</p> <p>For stationary sources with opacity CEM requirement. Except as provided by RCSA 22a-174-18(j), the permittee shall not exceed the following visible emissions limits: [22a-174-18(b)(2)(A) &amp; (B)]</p> <p>(A) Twenty percent (20%) opacity during any six-minute block average; or</p> <p>(B) Forty percent (40%) opacity during any one-minute block average.</p>
Annual Emission Statements	RCSA 22a-174-4	The permittee shall submit annual emission inventory statements requested by the Commissioner as specified in RCSA 22a-174-4(d)(1).
CEM Operation & Performance	RCSA 22a-174-4(c)	The permittee shall operate the CEM in accordance with the general opacity and gaseous CEM equipment operation and performance specified in RCSA 22a-174-4(c).
Emergency Episode Procedures	RCSA 22a-174-6	The permittee shall comply with the procedures for emergency episodes as specified in RCSA 22a-174-6.
Public Availability of Information	RCSA 22a-174-10	The public availability of information shall apply, as specified in RCSA 22a-174-10.
Prohibition against Concealment/ circumvention	RCSA 22a-174-11	The permittee shall comply with the prohibition against concealment or circumvention as specified in RCSA 22a-174-11.
Emission Fees	RCSA 22a-174-26	The permittee shall pay an emission fee in accordance with RCSA 22a-174-26(d).

## Section VI: Compliance Schedule

Table VI: COMPLIANCE SCHEDULE				
Emission Unit	Applicable Regulations	Steps required for achieving compliance (Milestones)	Date by which each step is to be completed	Dates for monitoring, record keeping, and reporting
N/A				

## Section VII: State Enforceable Terms and Condition

Only the Commissioner of the Department of Environmental Protection has the authority to enforce the terms, conditions and limitations contained in this section.

### A. APPLICABLE REQUIREMENTS

Table VII.A: APPLICABLE REQUIREMENTS			
Emission Unit Number	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations
EMU 1 & 2	H <sub>2</sub> SO <sub>4</sub>	ASC ≤ MASC	RCSA22a-174-29, Table 29-1 HAPS

Compliance with the H<sub>2</sub>SO<sub>4</sub> MASC shall be achieved by:

1. operating EMU 2 exclusively on natural gas; or
  2. by limiting the maximum SO<sub>x</sub> emitted from EMU 1 & 2 when operating interchangeably by the following equation:  
$$[\text{EMU 1}(\text{MMBtu/hr}) * 0.0128 \text{ lb/MMBtu} + \text{EMU 2}(\text{MMBtu/hr}) * 0.045 \text{ lb/MMBtu}] < 10.4 \text{ lb/hr}$$
- B.** Pursuant to RCSA 22a-174-29, the permittee shall not cause or permit the emission of any HAPs listed in Table 29-1 from the discharge point of any stationary sources on the premises, nor, of any HAPs listed in Tables 29-1, 2, & 3, from the discharge point of any permitted units on the premises, at a concentration in excess of the Maximum Allowable Stack concentration (MASC). The above condition shall be met at all times, unless the unit is operating in accordance with the terms of an order or permit of the Commissioner specifically allowing the continued operation of the unit in violation of RCSA 22a-174-29(b) while coming into compliance or the unit is in compliance with the provisions of RCSA 22a-174-29(d)(3). The MASC shall be determined per RCSA 22a-174-29(c).
- C.** This permit does not relieve the Permittee of the responsibility to conduct, maintain and operate the emissions units in compliance with all applicable requirements of any other Bureau of the Department of Environmental Protection or any federal, local or other state agency. Nothing in this permit shall relieve the Permittee of other obligations under applicable federal, state and local law.
- D.** Nothing in this permit shall affect the Commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, investigate air pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the Permittee by the Commissioner.
- E.** Odors: The Permittee shall not cause or permit the emission of any substance or combination of substances which creates or contributes to an odor beyond the property boundary of the premises in accordance with the provisions of RCSA 22a-174-23. Failure to comply with this requirement may result in the assessment of civil penalties and/or the issuance of a State Order.
- F.** Noise: The permittee shall operate in compliance with the regulations for the control of noise as set forth in RCSA Section 22a-69-1 through 22a-69-7.4, inclusive.
- G.** Open Burning: The permittee is prohibited from conducting open burning, except as may be allowed by CGS Section 22a-174(f).
- H.** Fuel Sulfur Content: The permittee shall not use #2 heating oil that exceeds three-tenths of one percent sulfur by weight as set forth in CGS Section 16a-21a.
- I.** Reporting of emissions of greenhouse gases: In accordance with CGS Section 22a-200b(b), not later than April 15, 2006, and annually thereafter, the owner or operator of any facility that is required to report air emissions data to the Department of Environmental Protection pursuant to Title V of the federal Clean Air Act and that has stationary emissions sources that emit greenhouse gases shall report to the regional registry direct stack emissions of greenhouse gases from such sources. The owner or operator shall report all greenhouse gas emissions in a type and format that the regional registry can accommodate.

## Section VIII: Permit Shield

### NO PERMIT SHIELD GRANTED

In accordance with Section 22a-174-33(k) of the RCSA, a Permittee complying with the conditions of this permit shall be deemed in compliance with any applicable requirements identified in the table below as of the date of issuance of this permit. Also, in accordance with Section 22a-174-33(k) of the RCSA, a Permittee complying with the conditions of this permit shall be deemed exempt from any non-applicable requirements identified below as of the date of issuance.

This permit shall not alter or affect the following:

- A. The provisions of section 303 of the Clean Air Act, including the authority of the Administrator under the Act;
- B. The liability of an owner or operator of a Title V source for any violation of applicable requirements prior to or at the effective date of a Title V permit;
- C. The applicable requirements of the acid rain program under 40 CFR Part 72; and
- D. The ability of the Administrator or Commissioner to obtain information from the owner or operator of a Title V source.

Table VIII: PERMIT SHIELD				
Regulated Pollutants	Emissions Units	Applicable Requirement or Non-Applicable Requirement Descriptions	Applicable Regulatory References/ Citations	*Permit Shield Indicate
N/A				

\*For “Permit Shield Indicate”, use AR to indicate Applicable Requirement and NR for Non- Applicable Requirement

## **Section IX: Title V Requirements**

The Administrator of the United States Environmental Protection Agency and the Commissioner of Environmental Protection have the authority to enforce the terms and conditions contained in these sections.

### **A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR**

The date of submission to the Commissioner of any document required by this permit shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this permit, including, but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is delivered or the date three days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in this permit, the word "day" means calendar day. Any document or action which is required by this permit to be submitted or performed by a date which falls on a Saturday, Sunday or legal holiday shall be submitted or performed by the next business day thereafter.

Any document required to be submitted to the Commissioner under this permit shall, unless otherwise specified in writing by the Commissioner, be directed to: Office of the Assistant Director; Compliance & Field Operations Division; Bureau of Air Management; Department of Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.

Any submittal to the Administrator of the U. S. Environmental Protection Agency shall be in a computer-readable format and addressed to: Director, Air Compliance Program; Attn: Air Compliance Clerk; Office of Environmental Stewardship; US EPA, Region 1; One Congress Street; Suite 1100 (SEA); Boston, MA 02114-2023.

### **B. CERTIFICATIONS [RCSA § 22a-174-33(b)]**

In accordance with Section 22a-174-33(b) of the RCSA, any report or other document required by this Title V permit and any other information submitted to the Commissioner or Administrator shall be signed by an individual described in Section 22a-174-2a(a) of the RCSA, or by a duly authorized representative of such individual. Any individual signing any document pursuant to Section 22a-174-33(b) of the RCSA shall examine and be familiar with the information submitted in the document and all attachments thereto, and shall make inquiry of those individuals responsible for obtaining the information to determine that the information is true, accurate, and complete, and shall also sign the following certification as provided in Section 22a-174-2a(a)(5) of the RCSA:

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information may be punishable as a criminal offense under Section 22a-175 of the Connecticut General Statutes, under Section 53a-157b of the Connecticut General Statutes, and in accordance with any applicable statute."

### **C. SIGNATORY RESPONSIBILITY [RCSA § 22a-174-2a(a)]**

For purposes of signing any Title V-related application, document, report or certification required by section 22a-174-33 of the Regulations of Connecticut State Agencies, any corporation's duly authorized representative may be either a named individual or any individual occupying a named position. Such named individual or individual occupying a named position is a duly authorized representative if such



## **Section IX: Title V Requirements**

individual is responsible for the overall operation of one or more manufacturing, production or operating facilities subject to section 22a-174-33 of the Regulations of Connecticut State Agencies and either:

1. The facilities employ more than two-hundred fifty (250) persons or have gross annual sales or expenditures exceeding twenty-five (25) million dollars in second quarter 1980 dollars; or
2. The delegation of authority to the duly authorized representative has been given in writing by an officer of the corporation in accordance with corporate procedures and the following:
  - (i) Such written authorization specifically authorizes a named individual, or a named position, having responsibility for the overall operation of the Title V premises or activity,
  - (ii) Such written authorization is submitted to the commissioner and has been approved by the commissioner in advance of such delegation. Such approval does not constitute approval of corporate procedures, and
  - (iii) If a duly authorized representative is a named individual in an authorization submitted under sub clause (ii) of this subparagraph and a different individual is assigned or has assumed the responsibilities of the duly authorized representative, or, if a duly authorized representative is a named position in an authorization submitted under sub clause (ii) of this subparagraph and a different named position is assigned or has assumed the duties of the duly authorized representative, a new written authorization shall be submitted to the commissioner prior to or together with the submission of any application, document, report or certification signed by such representative.

### **D. ADDITIONAL INFORMATION [RCSA § 22a-174-33(j)(1)(X)]**

The permittee shall submit additional information in writing, at the Commissioner's request, within thirty (30) days of receipt of notice from the Commissioner or by such other date specified by the Commissioner, whichever is earlier, including information to determine whether cause exists for modifying, revoking, reopening, reissuing, or suspending the permit or to determine compliance with the permit.

In addition, within fifteen days of the date the permittee becomes aware of a change in any information submitted to the Commissioner under this permit or of any change in any information contained in the application, or that any such information was inaccurate or misleading or that any relevant information was omitted, the permittee shall submit the changed, corrected, or omitted information to the Commissioner.

### **E. MONITORING REPORTS [RCSA § 22a-174-33(o)(1)]**

A permittee, required to perform monitoring pursuant this permit, shall submit to the Commissioner, on forms prescribed by the Commissioner, written monitoring reports on January 30 and July 30 of each year or on a more frequent schedule if specified in such permit. Such monitoring reports shall include the date and description of each deviation from a permit requirement including, but not limited to:

1. Each deviation caused by upset or control equipment deficiencies; and
2. Each deviation of a permit requirement that has been monitored by the monitoring systems required under this permit, which has occurred since the date of the last monitoring report; and
3. Each deviation caused by a failure of the monitoring system to provide reliable data.

## **Section IX: Title V Requirements**

### **F. PREMISES RECORDS [RCSA § 22a-174-33(o)(2)]**

Unless otherwise required by this permit, the permittee shall make and keep records of all required monitoring data and supporting information for at least five (5) years from the date such data and information were obtained. The permittee shall make such records available for inspection at the site of the subject source, and shall submit such records to the Commissioner upon request. The following information, in addition to required monitoring data, shall be recorded for each permitted source:

1. The type of monitoring or records used to obtain such data, including record keeping;
2. The date, place, and time of sampling or measurement;
3. The name of the individual who performed the sampling or the measurement and the name of such individual's employer;
4. The date(s) on which analyses of such samples or measurements were performed;
5. The name and address of the entity that performed the analyses;
6. The analytical techniques or methods used for such analyses;
7. The results of such analyses;
8. The operating conditions at the subject source at the time of such sampling or measurement; and
9. All calibration and maintenance records relating to the instrumentation used in such sampling or measurements, all original strip-chart recordings or computer printouts generated by continuous monitoring instrumentation, and copies of all reports required by the subject permit.

### **G. PROGRESS REPORTS [RCSA § 22a-174-33(q)(1)]**

The permittee shall, on January 30 and July 30 of each year, or on a more frequent schedule if specified in this permit, submit to the Commissioner a progress report on forms prescribed by the Commissioner, and certified in accordance with Section 22a-174-2a(a)(5) of the RCSA. Such report shall describe the permittee's progress in achieving compliance under the compliance plan schedule contained in this permit. Such progress report shall:

1. Identify those obligations under the compliance plan schedule in the permit which the permittee has met, and the dates on which they were met; and
2. Identify those obligations under the compliance plan schedule in this permit which the permittee has not timely met, explain why they were not timely met, describe all measures taken or to be taken to meet them and identify the date by which the permittee expects to meet them.

Any progress report prepared and submitted pursuant to Section 22a-174-33(q)(1) of the RCSA shall be simultaneously submitted by the permittee to the Administrator.

### **H. COMPLIANCE CERTIFICATIONS [RCSA § 22a-174-33(q)(2)]**

The permittee shall, on January 30 of each year, or on a more frequent schedule if specified in this permit, submit to the Commissioner, a written compliance certification certified in accordance with Section 22a-174-2a(a)(5) of the RCSA and which includes the information identified in Title 40 CFR 70.6(c)(5)(iii)(A) to (C), inclusive.

Any compliance certification prepared and submitted pursuant to Section 22a-174-33(q)(2) of the RCSA shall be simultaneously submitted by the permittee to the Administrator.

## **Section IX: Title V Requirements**

### **I. PERMIT DEVIATION NOTIFICATIONS [RCSA § 22a-174-33(p)]**

Notwithstanding Subsection D of Section IX of this permit, the permittee shall notify the Commissioner in writing, on forms prescribed by the Commissioner, of any deviation from an emissions limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows:

1. For any hazardous air pollutant, no later than twenty-four (24) hours after such deviation commenced; and
2. For any other regulated air pollutant, no later than ten (10) days after such deviation commenced.

### **J. PERMIT RENEWAL [RCSA § 22a-174-33(j)(1)(B)]**

All of the terms and conditions of this permit shall remain in effect until the renewal permit is issued or denied provided that a timely renewal application is filed in accordance with Sections 22a-174-33(g), -33(h), and -33(i) of the RCSA.

### **K. OPERATE IN COMPLIANCE [RCSA § 22a-174-33(j)(1)(C)]**

The permittee shall operate the source in compliance with the terms of all applicable regulations, the terms of this permit, and any other applicable provisions of law. In addition, any noncompliance constitutes a violation of the Clean Air Act and Chapter 446c of the Connecticut General Statutes and is grounds for federal and/or state enforcement action, permit termination, revocation and reissuance, or modification, and denial of a permit renewal application.

### **L. COMPLIANCE WITH PERMIT [RCSA § 22a-174-33(j)(1)(G)]**

This permit shall not be deemed to:

1. preclude the creation or use of emission reduction credits or the trading of such credits in accordance with Sections 22a-174-33(j)(1)(I) and 22a-174-33(j)(1)(P) of the RCSA, provided that the Commissioner's prior written approval of the creation, use, or trading is obtained;
2. authorize emissions of an air pollutant so as to exceed levels prohibited under 40 CFR Part 72;
3. authorize the use of allowances pursuant to 40 CFR Parts 72 through 78, inclusive, as a defense to noncompliance with any other applicable requirement; or
4. impose limits on emissions from items or activities specified in Sections 22a-174-33(g)(3)(A) and (B) of the RCSA unless imposition of such limits is required by an applicable requirement.

### **M. INSPECTION TO DETERMINE COMPLIANCE [RCSA § 22a-174-33(j)(1)(M)]**

The Commissioner may, for the purpose of determining compliance with the permit and other applicable requirements, enter the premises at reasonable times to inspect any facilities, equipment, practices, or operations regulated or required under the permit; to sample or otherwise monitor substances or parameters; and to review and copy relevant records lawfully required to be maintained at such premises in accordance with this permit. It shall be grounds for permit revocation should entry, inspection, sampling, or monitoring be denied or effectively denied, or if access to and the copying of relevant records is denied or effectively denied.

### **N. PERMIT AVAILABILITY**

## **Section IX: Title V Requirements**

The permittee shall have available at the facility at all times a copy of this Title V Operating Permit.

### **O. SEVERABILITY CLAUSE [RCSA § 22a-174-33(j)(1)(R)]**

The provisions of this permit are severable. If any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the remainder of this permit and the application of such provision to other circumstances shall not be affected.

### **P. NEED TO HALT OR REDUCE ACTIVITY [RCSA § 22a-174-33(j)(1)(T)]**

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

### **Q. PERMIT REQUIREMENTS [RCSA § 22a-174-33(j)(1)(V)]**

The filing of an application or of a notification of planned changes or anticipated noncompliance does not stay the permittee's obligation to comply with this permit.

### **R. PROPERTY RIGHTS [RCSA § 22a-174-33(j)(1)(W)]**

This permit does not convey any property rights or any exclusive privileges. This permit is subject to, and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the facility or regulated activity affected thereby, including Section 4-181a(b) of the Connecticut General Statutes and Section 22a-3a-5(b) of the RCSA. This permit shall neither create nor affect any rights of persons who are not parties to this permit.

### **S. ALTERNATIVE OPERATING SCENARIO RECORDS [RCSA § 22a-174-33(o)(3)]**

The permittee shall, contemporaneously with making a change authorized by this permit from one alternative operating scenario to another, maintain a record at the premises indicating when changes are made from one operating scenario to another and shall maintain a record of the current alternative operating scenario.

### **T. OPERATIONAL FLEXIBILITY AND OFF-PERMIT CHANGES [RCSA § 22a-174-33(r)(2)]**

The permittee may engage in any action allowed by the Administrator in accordance with 40 CFR 70.4(b)(12)(i) to (iii)(B) inclusive, and 40 CFR 70.4(b)(14)(i) to (iv), inclusive without a Title V non-minor permit modification, minor permit modification or revision and without requesting a Title V non-minor permit modification, minor permit modification or revision provided such action does not:

1. constitute a modification under 40 CFR 60, 61 or 63,
2. exceed emissions allowable under the subject permit,
3. constitute an action which would subject the permittee to any standard or other requirement pursuant to 40 CFR 72 to 78, inclusive, or
4. constitute a non-minor permit modification pursuant to Section 22a-174-2a(d)(4) of the RCSA.

At least seven (7) days before initiating an action specified in Section 22a-174-33(r)(2)(A) of the RCSA, the permittee shall notify the Administrator and the Commissioner in writing of such intended action.

## **Section IX: Title V Requirements**

### **U. INFORMATION FOR NOTIFICATION [RCSA § 22a-174-33(r)(2)(A)]**

Written notification required under Section 22a-174-33(r)(2)(A) of the RCSA shall include a description of each change to be made, the date on which such change will occur, any change in emissions that may occur as a result of such change, any Title V permit terms and conditions that may be affected by such change, and any applicable requirement that would apply as a result of such change. The permittee shall thereafter maintain a copy of such notice with the Title V permit. The Commissioner and the permittee shall each attach a copy of such notice to their copy of the permit.

### **V. TRANSFERS [RCSA § 22a-174-2a(g)]**

No person other than the permittee shall act or refrain from acting under the authority of this permit unless this permit has been transferred to another person in accordance with Section 22a-174-2a(g) of the RCSA.

The proposed transferor and transferee of a permit shall submit to the Commissioner a request for a permit transfer on a form provided by the Commissioner. A request for a permit transfer shall be accompanied by any fees required by any applicable provision of the general statutes or regulations adopted thereunder. The Commissioner may also require the proposed transferee to submit with any such request, the information identified in CGS Section 22a-6m.

### **W. REVOCATION [RCSA § 22a-174-2a(h)]**

The Commissioner may revoke this permit on his own initiative or on the request of the permittee or any other person, in accordance with Section 4-182(c) of the Connecticut General Statutes, Section 22a-3a-5(d) of the RCSA, and any other applicable law. Any such request shall be in writing and contain facts and reasons supporting the request. The permittee requesting revocation of this permit shall state the requested date of revocation and provide the Commissioner with satisfactory evidence that the emissions authorized by this permit have been permanently eliminated.

Pursuant to the Clean Air Act, the Administrator has the power to revoke this permit. Pursuant to the Clean Air Act, the Administrator also has the power to reissue this permit if the Administrator has determined that the Commissioner failed to act in a timely manner on a permit renewal application.

This permit may be modified, revoked, reopened, reissued, or suspended by the Commissioner, or the Administrator in accordance with Section 22a-174-33(r) of the RCSA, Connecticut General Statutes Section 22a-174c, or Section 22a-3a-5(d) of the RCSA.

### **X. REOPENING FOR CAUSE [RCSA § 22a-174-33(s)]**

This permit may be reopened by the Commissioner, or the Administrator in accordance with Section 22a-174-33(s) of the RCSA.

### **Y. CREDIBLE EVIDENCE**

Notwithstanding any other provision of this permit, for the purpose of determining compliance or establishing whether a permittee has violated or is in violation of any permit condition, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information.